Item E1

Memorandum

TO: **PLANNING COMMISSION MEMBERS**

FROM: **David Hanham, Planning Manager**

SUBJECT: **Recommendation to the City Council Regarding the Pinole Vista Project at1500 Fitzgerald Drive**

DATE: **July 25, 2022**

PROJECT INFORMATION

Property Owner	ROIC California 11250 El Camino Real #200 San Diego, CA 92130
Applicant	Chris Cole, c/o Metrovation25 Bridge Avenue, Suite 150 Red Bank, New Jersey, 07701
File	Planning Application PL21-0035 Design Review Application DR21-12
Location	1500 Fitzgerald Drive Pinole CA 94564
Assessor Parcel Number	426-391-010
Total Area	5.93-acre parcel, total • 1.19 acres building sites • 4.74 acres of circulation/parking lot/landscaping areas
General Plan Land Use Designation	SSA, Service Sub Area
Specific Plan Sub-Area	SSA, Appian Way /Service Sub-Area
Zoning Classification	CMU, Commercial Mixed Use
Review Authority	Comprehensive Design Review - Planning Commission – Pinole Municipal Code (PMC) Section Table 17.10.060-01 Tree Removal Permit – Planning Commission – PMC Section 17.96.060 Affordable Housing Regulatory & Density Bonus Agreement – City Council – PMC Section 17.32.060 (D) & PMC Section 17.38.080 California Environmental Quality Act Determination – Planning Commission – CA Public Resources Code Section 15022

	Density Bonus Review – City Council – PMC Section 17.38.080 and California Government Code section 65915. Note: The Municipal Code provides that whenever a project is requesting concessions under the Density Bonus Law, the City Council is the decision-making authority for all required permits for the project. Therefore, the Planning Commission's role in this project is to make a recommendation to the City Council, and the Council will consider action on all entitlements.

PROJECT DESCRIPTION

The proposed project consists of demolishing an approximately 91,000 square foot vacant retail structure (formerly Kmart) and constructing a five-story 263,862 square-foot 223-unit apartment building on an existing parcel within the Pinole Vista Shopping located at 1500 Fitzgerald Drive. Pursuant to the City's inclusionary housing requirements (PMC 17.32.020), the project will offer 13 very- low-income units, 14 low-income units with the remainder of the 196 units being market-rate units. The building will have the same orientation as the former Kmart building with the main entrances facing the existing shopping center. The front façade (east elevation) and the parking lot will be changed from its initial orientation of 45-degree parking stalls to 90-degree parking stalls. The rear of the building (west elevation) will add an additional row of parking along the building and have three entrances to the building that connect to the front lobbies. The sides of the building (north and south) will include additional landscaping and a new passive open space area for use on the southern end of the property. Landscaping will be added to the front of the building elevation and within the two rows of parking. Additional project details are provided in the Project Components section later in this report.

BACKGROUND

Overview of State Housing Laws

In recent years, the California Legislature has adopted or strengthened a number of laws intended to facilitate the development of new housing. These laws significantly restrict, or completely remove, the discretion of cities when reviewing certain residential projects within their jurisdiction.

The State Density Bonus law provides special multiple incentives to project that include affordable housing units. First, projects that provide affordable units are entitled to "bonus units" that allow the project to include more units than would otherwise be allowed by a city's adopted density requirements. The greater the percentage of affordable units in the project, the greater the percentage bonus a project is entitled to receive, with the specific percentages established by state law.

In addition to a density bonus, the State Density Bonus law provides projects with "concessions". An applicant may use a concession to reduce or eliminate any specific site development standards, zoning code requirements or architectural design requirements. An applicant is entitled to between 1-4 concessions based on the percentage of affordable units in the project. In addition, projects are automatically entitled to reduced parking requirements even without the use of any concession. Finally, density bonus projects are also entitled to "waivers". An applicant may use a waiver to reduce or eliminate any standard that would physically prevent the project from being built at the density allowed (with the

density bonus units included).

In addition to the Density Bonus Law, the Housing Accountability Act prohibits a city from denying, or reducing the density of, any project that complies with all of the City's adopted objective standards. Conditions imposed on the project must not make the project infeasible. Under state law, a project complies with an adopted objective standard if that standard has been reduced or eliminated pursuant to the Density Bonus Law.

The City may only deny the use of a concession or waiver under the Density Bonus Law or deny or reduce the density of a project that complies with all adopted objective standards **if** the City can make very specific and narrow findings that the project would cause a "specific, adverse impact upon the public health or safety" that cannot be mitigated. A "specific, adverse impact" is defined under state law as "a significant, quantifiable, direct, and unavoidable impact, based on objective, identified written public health or safety standards, policies, or conditions as they existed on the date the application was deemed complete."

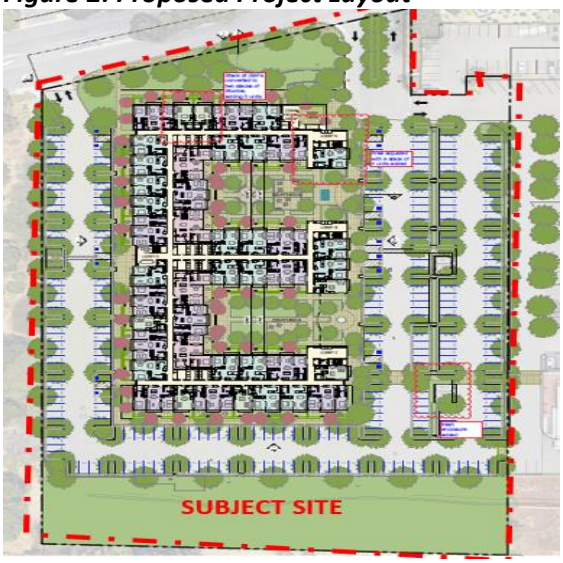
Project Overview

The property at 1500 Fitzgerald Drive is currently configured with an approximately 91,000 square foot vacant commercial retail building formerly occupied by Kmart and owned by the ROIC Pinole Vista Limited Liability Corporation. The commercial structure has been vacant since early 2019 with seasonal uses of the building (I.e., Halloween Spirit store) sporadically. The project is surrounded by Fitzgerald Drive to the north, the City Limits and existing single-family residential (unincorporated El Sobrante) to the south, the existing Pinole Shopping Center to the east, and Best Buy (Pinole Vista II) shopping center to the west. The Pinole Vista Shopping Center tenants include Mountain Mike's Pizza, Lucky's Supermarket, Starbucks, Big Five Sporting Goods, Pho Craze, Ristorante Due Rose, Noah's Bagel, the UPS Store and other smaller service, restaurant, and retail tenants. See **Figure 1** for an aerial view of the project's location.

On April 6, 2021, Chris Cole, Applicant, on behalf of the property owner, submitted a Planning application for demolition of the existing commercial building and construction of a new five-story 223-unit apartment building at 1500 Fitzgerald Drive. See **Figure 2** for the proposed site plan for the new development.

Figure 1: Project Location

Figure 2: Proposed Project Layout



The Planning Commission Ad-Hoc Committee, consisting of three Planning Commissioners, provided input to staff on the proposed project on two occasions. The Ad-Hoc Committee provided feedback on design treatments and project specifics on May 5, 2021, that resulted in revisions to the architecture with additional building details as well as landscape improvements.

The applicant conducted a virtual community meeting on July 29, 2021. The Applicant sent notices to all property owners within 1,000 feet from the project area. The community meeting was attended by 16 people. The majority of public comments were related to the size and scale of the project. There were also comments from the public regarding the loss of the commercial use on the site. The applicant took all of the names of the people who attended and reached out to them throughout the process.

Updated plans were reviewed by the Ad-Hoc Committee on July 14, 2022. At that meeting, the Committee reviewed comments from May 2021 and input from the community meeting and recommended to staff that with the additional comments below, the project was ready to be reviewed by the Planning Commission. The Ad-Hoc Committee's additional July 2022 comments are summarized below, with a note from staff in italics regarding the status of the recommendation.

1. Consider using native trees for the new landscaping being proposed

   Staff Comment: *The Applicant will consult with the arborist, and a condition of approval has been included in the draft conditions of approval which would require the inclusion of more native trees to the maximum extent possible.*

2. Ensure existing landscaping at project frontage/entrance is refreshed.

   Staff Comment: *New plantings and refreshed landscaping are included in the plans and will be implemented.*

3. Consider fencing around the exterior for the project.

Staff Comment: *In consultation with the applicant and their design architect, there are opportunities for perimeter fencing and gating for the project, in order to provide circulation safety given the adjacent shopping center. A condition of approval has been included to require the applicant to prepare and submit a perimeter fencing and gating plan for review and approval by the Community Development Director in consultation with the Planning Commission Ad-Hoc Committee and the Pinole Police and Public Works Department. The perimeter fencing and gating for the project will be required to clearly delineate and separate the residential areas from the commercial shopping center, be at least 48 inches in height, constructed of attractive and high- quality materials and remain in place through the life of the residential building.*

4. Ensure adequate lighting but minimize spillover light.

   Staff Comment: *Preliminary lighting fixture details are included the plans, and a condition of approval has been included in the draft conditions of approval that would require the project to comply with the City's Municipal Code Lighting standards, which address levels of illumination.*

5. Consider if permeable paving can be used in parking areas.

   Staff Comment: *The Applicant has indicated to staff that permeable paving is infeasible due to the cost of the materials.*

6. Consider Electric Vehicle (EV) parking, E-Bike charging, Solar Panels.

   Staff Comment: *The Applicant will be installing eight EV charging stations on southeast portion of the parking area and will be adding stations in the future as demand increases. Conduit will be installed in the parking area, making additional EV charging stations in the future feasible without additional modifications to the parking area. The Applicant is working with the design engineer to make sure the building has the capacity for E-Bike charging. The Applicant will be installing solar panels on the roof top as a part of this project.*

7. Consider another roof deck and appropriate play space within the courtyards.

   Staff Comment: *City Staff has confirmed from the applicant that based on the design of the roof on the southern portion of the building there are not opportunities for additional roof decks. The applicant has confirmed that there is an opportunity for an additional children's play space (most likely a passive play space) in one of the courtyards and has included a requirement to provide such an amenity through the draft conditions of approval.*

PROJECT COMPONENTS

Uses and Layout

The proposed apartment building contains five floors of residential units. The ground floor level includes three major lobby areas and tenant amenities/ facilities including a fitness center, a leasing office, mailboxes, restrooms, storage for up to 160 bicycles, lounge/café, and access to two courtyards. The proposed unit mix on the ground level is five studios, 16 one-bedroom, 12 two-bedroom, and 4 two bedrooms plus office units. All the exterior units on the ground level have private patios that are 258 square feet Levels Two through Four include a mixture of eight studios, 21 one-bedroom, 14 two-bedrooms, and four two-bedrooms plus office units. Level Five includes a mixture of seven studios, 20 one-bedroom, 14 two-bedroom, and four two-bedroom plus office units. Open space is provided with two outdoor courtyards, benches, and picnic tables along the southern portion of the property, a seating area in the lounge in the front of the property facing Fitzgerald Drive, and a rooftop common open space area on the northeast side of the building facing Fitzgerald Drive. Solar Panels will be installed on the roof in a location that will maximize the energy absorption for the building.

Parking

The proposed construction requires modifications to the existing parking area. Sidewalks and additional landscaping will be installed around the exterior of the building. The redeveloped parking lot for the project will provide 275 surface parking spaces that surround the apartment building. **Table 4** shows the parking requirements. In general, all parking areas would be repaved with concrete. Existing landscaping strips in and around the existing parking area will be removed; and new landscaping areas consisting of native shrubs and ground covers as is prescribed in the preliminary landscape plan is being proposed. The project proposes a shared parking arrangement and parking management strategies with the existing shopping center to provide sufficient parking to meet demand (see **Attachment D)**.

Accessibility

To comply with the ADA (Americans with Disabilities Act) accessibility standards, a new 48-inch-wide pathway and ramp from the sidewalk on Fitzgerald Drive would be established around the apartment building. The parking area would be repaved and restriped to accommodate the new path as well as relocated ADA spaces. Likewise, the landscape area at the Fitzgerald Drive portion of the property will be updated to establish the ramp and path. A new accessibility path to the rear of the property will also be established along east and west of the project.

Landscaping

The landscaping on the property would generally be refreshed on the northern and southern portion of the property, the front and rear parking areas, and landscaping around the building, as shown in the project's landscaping plan (**Attachment C**). The landscaping is native to the area and drought tolerant. PMC Section 17.44.050 addresses the placement and size of the landscape treatment for the project. The preliminary landscape plan (Pages L1.1 to L1.3 of the project plans) outlines the placement, size, and species of all of the landscape components (trees, shrubs, groundcovers, and turf). The landscaping plan is in compliance with the PMC requirements for landscaping.

There are 83 total trees within the development site, 29 of which would be removed, including three native trees. The three native trees, Italian Stone Pines along the property frontage of Fitzgerald Drive are classified as protected pursuant to PMC Chapter 17.98 due to their size (greater than 56 inches or larger

in circumference measured four and a half (4 1/2) feet above the natural grade) and are proposed to be removed. PMC Table 17.44.070-1 (Tree Replacement Schedule) requires the removal of protected trees 6 inches or greater to be mitigated with a minimum 36-inch box replacement trees. In recognition of the size and maturity of the existing protected trees more mature trees are recommended to be planted as replacement trees for the project. In order to achieve an immediate effect of robust landscape installation and allow the replacement trees to reach optimum height more quickly, staff recommends enhanced planting requirements.

Staff has included a condition of approval that would require a minimum of six replacement trees, with three of the replacement trees being 48-inch or 60-inch box trees, and three being 36-inch box trees. The species and exact planting location is subject to review and approval by the Community Development Director, in consultation with the Planning Commission Ad-Hoc Subcommittee. The species selection is conditioned to be drought-tolerant and native, complement the architectural design of structures on the site, and suitable for the soil and climatic conditions specific to the site. The Applicant will also be required to submit a protected tree removal plan, pursuant to PMC Section 17.96.060.D indicating which protected trees can be removed and shall be used by the Community Development Director to issue a protected tree removal permit in compliance with the action taken on the entitlements.

Development Standards

Table 1 compares the proposed project with the required development standards in Chapter 6 of the Three Corridors Specific Plan and in PMC Section 17.24.030 and 17.48.050 of the Zoning Ordinance. As noted, there are standards that are being waived or modified consistent with California State Law for the project's provision of affordable housing under a Density Bonus request (PMC Section 17.38.010), as supplemented by the latest provisions under California Government Code Section 65915. Additional information on waivers and concessions requested are discussed later in this report.

Circulation

The Pinole Vista Apartment's circulation is dictated by the existing circulation conditions of the Pinole Vista Shopping Center. The Apartment complex is using two existing access driveways on the western portion of the property to create loop around the building. By removing the existing vacant structure and adding the apartment building, the site gains an additional 40,000 square feet of buildable area. This additional square footage allowed the project to add parking adjacent to the building on the rear and southern portion of the property. In the front portion of the building the parking lot is proposed to be adjusted to allow for two full rows of 90-degree parking. By taking away the existing parking and installing the two new rows, it gives the apartment an opportunity to create new main aisle for the existing shopping center and create a boundary for the residents. The residents will access the shopping from a covered walking path from the apartment building to the western edge of the shopping center. The applicant will be required, through a condition of approval, to fence the project for the purpose of delineating the existing shopping center parking and the apartment complex.

Overall Design

The proposed architecture of the new multi-family residential building has a distinct coordinated look throughout each level of the building that at the same time provides variation in colors, materials, and articulation to provide interest and reduction in visual massing. The ground floor is mixture of a brown and tan colored concrete base, vines, and planters. In order to better integrate into the existing shopping

center, the ground level at the front of the building (east elevation) has been designed to have the appearance of a commercial front with full length windows as well as covered sidewalks to give the look of storefront awnings. In addition, the front living units on the ground floor (facing the existing shopping center) have raised patios to create an outdoor dining look. Levels two through four feature whitewash and tan accent plaster. Level five is accentuated by gray horizontal siding that wraps the entire building. On all levels the building features a dark trim. Elevations are varied and punctuated with metal guardrails, glass and metal railing, and casement windows. The rooftop located on the northeast portion of the building offers an uncovered outdoor common space for residents including a lounge furniture, outdoor tables, and a BBQ island. The rooftop common area will be landscaped with raised planters. **Figures 2** through **5** show the proposed design of the new apartment building. The full set of project renderings are located on Pages A3.1 through A3.9 of the plan set (**Attachment C**).

Table 1. Development Standards

Development Standard	PMC Requirement and Citation	Specific Plan Requirement and Citation	Proposal	Compliance
Density (dwelling units/acre, or "du/ac")	Eligible for Density Bonus up to 25% of the "base units" (State Government Code Section 65915)	Between 20.1 and 30.0 units per acre (Three Corridor Specific Plan – Table 6.1 page 6.0- 4)	37.6 du/ac (223 units proposed on a 5.93-acre development site)	Yes, with application of State Density Bonus provisions (Government Code 65915)
Setbacks				
Front	N/A	0-5 feet (Table 6.16. page 6.0.58)	67	Yes
East Side	N/A	0 feet (Three Corridor Specific Plan Table 6.16. page 6.0.58)	Over 142 feet	Yes
West Side		0 feet (Three Corridor Specific Plan Table 6.16. page 6.0.58)	77 feet	Yes

Development Standard	PMC Requirement and Citation	Specific Plan Requirement and Citation	Proposal	Compliance
Rear	N/A	0 feet (Three Corridor Specific Plan, Table 6.16. page 6.0.58)	167 feet	Yes
Height	N/A	6 stories/ 75 feet (Table 6.16. page 6.0.58	5 stories/55 (to the roof)/ 64 feet (to the roof access structure)	Yes
Parking	363 spaces for residents and 78 for visitor parking (Section 17.18.050, Table 17.48.050-1)	N/A	275 spaces	Yes, application of State Density Bonus provisions (Government Code 65915.p.1)[1]
Open Space (Multifamily)	Multifamily: 20% of lot area and not less than 300 square feet per unit (PMC Section 17.24.030 {2})	N/A	32% 369 square feet per unit	Yes
Landscaping	Multifamily: 30% of lot area (PMC Section 17.24.030 {3})	N/A	32%	Yes

1 The State Density Bonus Law allows for standard reduction in parking. The State Law maximum parking requirement is 1-space/per studio and one-bedroom units and 1.5 spaces/per two bedroom or greater. Using the State Density provisions and the proposed unit mix, the parking requirement is 267. The City is not able to require further increases to the proposed parking count.

Figure 2: Project Rendering from Main Project Entry (from Fitzgerald Drive)

Figure 3: Project Rendering with Ground Level Detail

Figure 4: Project Rendering of West Entrance

Figure 5: Project Rendering of Evening View from the Shopping Center Plaza

Required Land Use Approvals

Entitlements and approvals required for the project include Comprehensive Design Review, Tree Removal Permit, Density Bonus Request, Affordable Housing Regulatory & Density Bonus Agreements, and a California Environmental Quality Act (CEQA) determination. Pursuant to PMC Table 17.10.060-1, the Planning Commission has approval authority of the Comprehensive Design Review, Tree Permit and CEQA determination. However, PMC Section 17.38.080 provides that whenever a project is requesting concessions under the Density Bonus Law, the City Council is the decision-making authority for all required permits for the project. In addition, the City Council has approval authority over the Affordable Housing Agreement, which is necessary to ensure that the affordable units required by the City's inclusionary housing ordinance and the Density Bonus Law are provided and maintained for 55 years. The Affordable Housing Agreement will be reviewed by the Council only after entitlements are approved. Accordingly, the Planning Commission will be making a recommendation to the City Council regarding the proposed project, and not a final decision. Final decision on the entitlements will rest with the City Council.

ANALYSIS

As part of the Comprehensive Design Review, the project is reviewed for consistency with the City's General Plan, the Three Corridor Specific Plan, and the Zoning Ordinance. The purpose of comprehensive design review is to ensure that the design and layout of the proposed project will constitute suitable development and will not result in a detriment to the City of Pinole or to the environment. Unlike a Conditional Use Permit, Comprehensive Design Review does not review the proposed use, only the project's design and layout. The Planning Commission, when making a recommendation to the City Council, is required evaluate specific findings for approval as described under Pinole Municipal Code Chapter 17.12.150. The following discussions expand on elements considered in determination of consistency with findings in order to assist the Planning Commission in making their recommendation.

It is recognized that consistency with City policies and regulations would need to be viewed in context with State law that may allow for provision of certain deviations for local standards. To that extent, the authorized body taking action on entitlements may find that the project is consistent with the applicable City policies and regulations, and as provided by State law.

General Plan Consistency

The property located at 1500 Fitzgerald Drive has a General Plan Land Use Designation of "SSA" (Sub-Service Area). The SSA designation is intended to maintain and enhance existing land uses while providing land use flexibility and incentives to encourage new private investments and additional development. Each Service-Sub Area has a different emphasis. The Appian Way Corridor SSA is intended to maintain and enhance the regional gateway area into Pinole and capitalize on freeway access to upgrade existing development and attract a desirable mix of commercial service and residential uses.

POLICIES

The project helps to implement numerous policies within different elements of the General Plan including the Community Character Element, Land Use and Economic Development Element, Circulation Element, Health and Safety Element, and the Sustainability Element. The policies below are a partial list of the most relevant to the project.

Community Character Element

POLICY CC.1.1 All new development and redevelopment shall adhere to the basic principles of high-quality urban design and architecture including, but not limited to, human-scaled design, pedestrian orientation, and interconnectivity of street layout, siting buildings to highlight important intersections, entryways, focal points, and landmarks.

POLICY CC.1.2 Require all new development to incorporate high-quality site design, architecture and planning to enhance the overall quality of the built environment in Pinole and create a visually interesting and aesthetically pleasing town environment.

POLICY CC.1.5 Encourage project compatibility, interdependence, and support with neighboring uses, especially between commercial and mixed-use centers and the surrounding residential neighborhoods. Uses should relate to one another with pedestrian connections, transit options, shared parking, landscaping, public spaces, and the orientation and design of buildings.

Land Use and Economic Development Element

POLICY LU.3.2 Ensure high quality site planning, architecture and landscape design for all new residential development, renovation, or remodel

POLICY LU. 7.5 Ensure that new and existing developments can be adequately served by municipal services and facilities in accordance with City standards. New projects which require construction or expansion of public improvements shall pay their fair share of the costs necessary to improve or expand infrastructure to serve them, including street improvements, parks, water storage tanks, sewer and water service, and other public services.

Housing Element

POLICY H.3.4 ENCOURAGE NEW PEDESTRIAN-ORIENTED DEVELOPMENT. Encourage new development and redevelopment that place residences in close proximity to a variety of services and facilities.

POLICY H.4.1 PROVIDE A CHOICE OF HOUSING. Provide a mix of sizes and housing types to meet the needs of Pinole's diverse population. Specific examples include traditional single-family homes, second units, mixed use developments, infill development, accessible housing, and transitional and emergency housing. Opportunities must be available for lower, moderate, and above-moderate income households reflecting available job opportunities in close proximity to Pinole. Available housing choices should also strive to minimize transportation needs.

POLICY H.4.4 SUPPORT THE DEVELOPMENT OF AFFORDABLE HOUSING. Maintain appropriate land use regulations and other development tools to encourage development of affordable housing opportunities throughout the City.

Circulation Element

POLICY CE.1.4 Encourage maximum utilization of the existing public transit system and alternate modes of transportation in Pinole.

POLICY CE.8.1 Require development to provide pedestrian walkways that are safe, interconnected, and accessible by all members of the community.

POLICY CE.8.4 Encourage the location of basic shopping and services within walkable distances to residential areas.

Health and Safety Element

POLICY HS.5.2 Encourage mixed-use developments that put residences in close proximity to services, employment, transit, schools, and civic facilities/services.

POLICY HS.6.1 Promote and encourage walking and bicycling as viable forms of transportation to services, shopping, and employment.

POLICY HS.7.3 Reduce the transport of runoff and surface pollutants off site.

Sustainability Element

POLICY SE.2.2 Pinole should continue to encourage a vital economy that supports green businesses and green industry.

POLICY SE.3.4 Reduce GHG emissions by reducing vehicle miles traveled and by increasing or encouraging the use of alternative fuels and transportation technologies.

POLICY SE.4.3 Pinole will promote and require renewable energy generation and cogeneration where feasible and appropriate.

POLICY SE.4.5 Pinole will continue to promote and support and require, where appropriate, the development of solar energy.

POLICY SE.7.2 Support the expansion of tree planting and landscaping practices that encourage the use of trees, plants, and vegetation to improve air quality to enhance the scenic quality of the City.

POLICY SE.8.1 Encourage alternatives to single-occupancy vehicle use, including using public transit, carpooling, teleworking, bicycling, and walking.

Staff Comment: *As supported by the policies listed above from the General Plan, the project has been found to be consistent with the General Plan. The project features high quality architectural design with internal aesthetic and functional connections between new development and existing development and between residential and nonresidential portions. The project proposes infill development that realizes potential within the existing property to create new opportunities that expand both business and housing uses. The proposal would bring residents to an area with opportunities for employment, services and shopping in a corridor served by transit and continuous sidewalks. As new construction, the project would be required to comply with current green building standards under the building code, which include energy efficiency standards in buildings, compliance with solar requirements, and electric vehicle (EV) capable infrastructure.*

Eight EV-installed stations would be installed on the southeast portion of the parking area. Additional EV stations will be able to be added in the future as demand increases due to conduit being installed with the parking lot improvements. By installing the EV charging stations and the additional conduit, the applicant will be exceeding current codes. The project would bring updates to the lot design that would meet current standards to manage stormwater and runoff, including features such as permeable pavers in parking areas, updated landscaping areas, and new storm drain connections. Additionally, new landscaping areas and plantings are proposed on site, which would bring landscaping up to current water efficient landscaping requirements. This project is consistent with the General Plan.

Specific Plan and Zoning Consistency

The Pinole Vista project is in the Appian Way Corridor of the Three Corridor Specific Plan. The project is in the Service Sub-Area (SSA) and has a Specific Plan Land Use/Zoning Designation of Commercial Mixed Use (CMU). Table 6.14 (Permitted Use Table for Appian Way) in the Specific Plan indicates that Multifamily Dwellings (i.e., apartments) are a permitted use by-right (see **Figure 6**). See **Figure 7** for the Appian Way Land Use Plan, which illustrates the Specific Plan designations of this Corridor. The purpose and characteristics of the Commercial Mixed-Use designation is to designate property for vibrant commercial and mixed-use developments. Pursuant to Table 6.1 (Land Use Districts) in Chapter 6.0 of the Three Corridor Specific Plan, while the CMU category is to allow predominately commercial uses, "this category is designed to provide for the integration of retail and service commercial uses with office and/or residential uses. In multiple story buildings, retail uses are the predominant use on the ground floor. Commercial retail and service uses (including general retail, personal services, and minor auto services) are permitted by right and more intense commercial and service uses are conditionally permitted. Business and professional office uses, as well as residential uses (density between 20.1 and 30.0 units per acre), are also permitted by right when integrated vertically or horizontally with commercial uses. At least 51 percent of the total floor area should be commercial retail and service use. However, up to 100 percent of total floor area may be residential use for development with an affordable housing agreement and when that development includes community benefits as specified in the General Plan."

POLICIES

Land Use Policy 1. Provide for a variety of housing types throughout the plan areas.

Land Use Policy 3. Provide affordable housing within the plan areas consistent with the City's General Plan

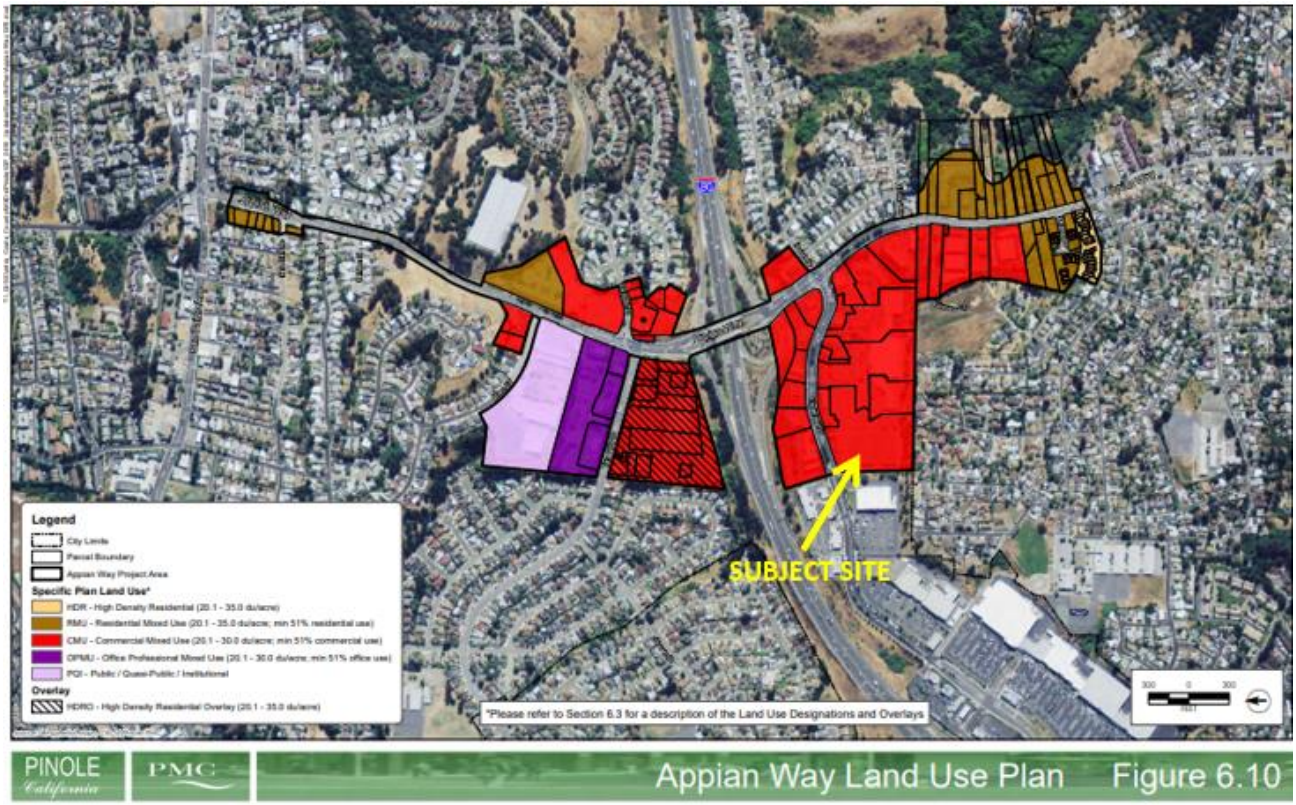
Land Use Policy 5. Support existing viable uses while encouraging a new mix of uses.
Land Use Policy 6. Actively promote the "revitalization" of underutilized land.

Figure 6: Annotated Permitted Use Table for Appian Way

Table 6.14
Permitted Use Table for Appian Way
Permitted Use provisions are symbolized in the table as follows:
P = Land Use permitted by right
CUP = Land Use permitted with approval of Conditions Use Permit
N = Land Use not permitted
N/A = Not Applicable

Land Use Classifications	Service Sub-Area				Mixed-Use Sub-Area			
	RMU	CMU	OPMU	PQI	HDR	RMU	CMU	PQI
Residential Use Listings								
Adult Day Care Home	P	P	P	N	P	P	P	N
Child Day Care Facility	CUP	CUP	CUP	N	CUP	CUP	CUP	CUP
Dwelling, Multifamily	P	P	P[b]	N	P	P	P[b]	N
Dwelling, Second Unit	N/A[e]	N/A[e]	N/A[e]	N	N/A[e]	N/A[e]	N/A[e]	N
Dwelling, Single-family	N	N	N	N	N	N	N	N
Dwelling, Two-family	N/A[e]	N/A[e]	N/A[e]	N	N/A[e]	N/A[e]	N/A[e]	N
Family Day Care Home, Small (6 children or less)	P[d]	P[d]	P[d]	N	P[d]	P[d]	P[d]	N
Family Day Care Home, Large (7 – 24 children)	CUP	CUP	CUP	CUP	N	CUP	CUP	CUP
Home Occupation	P[a]	P[a]	P[a]	P	P[a]	P[a]	P[a]	P
Live-Work Facility	P	P	P	P	P	P	P	P
Residential Care Home	CUP	CUP[b]	CUP[b]	CUP	CUP	CUP	CUP[b]	CUP
Emergency Shelter/ Temporary Home	N	N	N	N	N	N	N	N

Figure 6: Annotated Appian Way Land Use Plan Map (Figure 6.10 in the Specific Plan)



Staff Comment: Staff recommends that this project is consistent with the State Housing Density law and the Three Corridor Specific Plan. The project proposes a multifamily residential development consisting of 223-units on a 5.93- acre CMU-zoned site in the Appian Way Corridor. Based on the size of the parcel, the City's Zoning Ordinance, Specific Plan and General Plan allow a maximum of 178 units (the project's "base units"). However, a state density bonus has been applied by the applicant to exceed the Zoning Ordinance and Specific Plan-prescribed maximum of 30 du/ac by 45 units, which is allowed pursuant to State Density Bonus Law due to the project's provision of 27 units of housing affordable to families who earn 80% or less of the Area Median Income (AMI) [2].

Although directly adjacent to the Pinole Vista Shopping Center, the project site is a separate parcel from the Shopping Center and the 100% residential project is not providing a commercial component. The Applicant has included a waiver of the requirement in the Specific Plan that "at least 51 percent of the total floor area should be commercial retail and service use" consistent with the waivers/concession outlined in Section 65915 of the California Government Code (State Density Bonus Law). Under the State Density Bonus Law, the applicant may use a concession to reduce or eliminate "site development standards…zoning code requirements or architectural design requirements". (Gov. Code § 65915(k)(1).) The definition of "development standards" includes requirements established by specific plans. (Gov. Code § 65915(0)(1).) The Specific Plan identifies that residential development is projected in the Appian Way Corridor and multifamily residential is a permitted use by right in the CMU designation. Based on the standards and policies listed above, in combination with the State Density Bonus Law, staff recommends that the project is consistent with the Specific Plan.

Pinole's Inclusionary Housing Requirements

The project proposes the development of multifamily residential units and provides for affordable housing consistent with proportions under the City's affordable housing requirements (Chapter 17.32) and State Density Bonus Law (see section immediately following). Most federal and State housing assistance programs set maximum incomes for eligibility to live in assisted housing, and maximum rents and housing costs that may be charged to eligible residents, usually based on their incomes. The Department of Housing and Community Development (HCD) publishes annual tables of official federal and State income limits for determining these maximums for a variety of programs. These limits are based on the median income of four-person households in each county in California.

Table 2 below illustrates the maximum annual income and associated maximum rents for a household of four in the five income categories in 2021 – extremely low income households (less than 30 percent of Contra Costa County median income in 2021), very-low income households (between 30 and 50 percent median income), low income households (between 50 and 80 percent median income), moderate income households (between 80 and 120 percent median income) and above moderate income households (over 120 percent median income. Pursuant to PMC Chapter 17.98, in order to determine the maximum monthly rent and purchase price of home affordable to households at various income levels, 30 percent of gross monthly income should be reserved for "housing expenses." Housing expenses for renter occupied units include monthly utility fees and renters' insurance.

[2] *The California Department of Housing and Community Development (HCD) publishes income limits annually at: https://www.hcd.ca.gov/state-and-federal-income*

Table 2: Affordable Housing Income Categories and Maximum Associated Rent

Income Category	2021 Annual Income 4-person household	Maximum Monthly Rent
Extremely Low Income < 30% of Median Income[3]	Less than $41,100	$1,028
Very Low Income 30 - 50% of Median Income	$41,100 - $68,500	$1,713
Low Income 50-80% of Median Income	$68,500 - $109,600	$2,740
Moderate Income 80-120% of Median Income	$109,600 - $150,700	$3,768
Above Moderate Income >120% of Median Income	>$150,700	>$3,768

PMC Section 17.32.020 requires for all rental residential developments of four or more dwellings, at least 15% of the units must be offered for rent as affordable housing units to lower income households, with at least 40% of those units affordable to very low-income households. The project meets the City's inclusionary housing requirement by reserving 27 of the 178 base units for rent to lower income households. The Code requires 11 of the units to be reserved at the very low-income level (not exceeding 50% of AMI) and the remaining balance of 16 units to be reserved at the low-income level (not exceeding 80% of AMI)[4].

However, the applicant has voluntarily elected to modify the mix of affordable units, offering 14 units (instead of 16) to low-income households and 13 units (instead of 11) for very low-income households, which add additional affordability for very-low-income households and increase the overall affordability mix of the project. The affordable units are required to be disbursed across the various unit size types in approximately the same proportions as the overall unit size type allocation. **Table 3** project's conformance with the City's inclusionary housing requirements.

Table 3: Project's Conformance with Pinole's Inclusionary Housing Requirements

	Base Project	**Total Number of Required Inclusionary Units (15% of Base Units)**	**Inclusionary Units Affordability Distribution**	
			Affordable to Very-Low Income Households	Affordable to Low Income Households

3 *Based on the median annual household income in Contra Costa County for a 4-person household (which in 2021 was $125,600)*

4 The 15% affordability requirement applied to 178 base units is 26.7, which is rounded to 27 units. For the very low-income unit allocation, 40% of four units is 10.6 units, which rounded up to 11 units. Per Table 17.32.020-1 and the examples provided in Pinole Municipal Code Section 17.32.020, the remaining units (16) would be provided as low-income units.

PMC Section 17.32.020 Requirements	178	27	*11*	*16*
Applicant's Proposed Distribution	**178**	**27**	***13***	***14***

Density Bonus Provisions

To encourage the production of affordable housing, the State Density Bonus Law (Government Code Section 65915) allows developers to receive a density bonus of up to a 100% increase for projects, depending on the amount and level of affordable housing provided. The Density Bonus is a state mandate, and any developer who meets the requirements of the State Law is entitled to receive the density bonus and other benefits as a matter of right.

The maximum allowable density in the CMU Zoning District is 30 du/ac, which would yield 178 units on the subject's 5.93-acre development site. Based on 178 base units at 15% affordability, with 27 units for lower income households of which 14 units (8% of total) are reserved for low-income households and 13 units (7% of total) are reserved for very-low income households, the proposed project is eligible for an up-to 27.5% density bonus, or up to 49 additional units for a total of 227 units.[5] The project proposes 45 additional dwelling units, for a total of 223 units, with 196 of the units offered at market rate, 14 of the units offered to low-income households (household earning 50-80% of AMI), and 13 of the units offered to very lower income households (households earning less than 50% of AMI). The proposed 223-unit development represents a 22% increase over the maximum allowable density, which is less than the allowable 29% density bonus. Under the State Density Bonus Law, the applicant is entitled to receive the requested 22% density bonus as a matter of right.

Additionally, the project is eligible for 1) an unlimited number of waivers/reductions of development standards that may be used to waive any development standard that would physically prevent the construction of the project at the allowed density (including density bonus); 2) reduced parking ratios entitled to projects qualifying for a density bonus without needing the use of a concession; and 3) one incentive/concession since the project provides 15% of base units as units affordable to lower income households. The applicant is entitled to these benefits under Government Code Section 65915, and the City is prohibited from denying these requests unless very narrow findings can be made, as described in further detail above.

A. **Waivers/Reductions:** If any City development standard would physically prevent the project from being built at the permitted density and with the granted concessions/incentives, the developer may propose to have those standards waived or reduced. The waiver or reduction of a development standard does not count as an incentive or concession, and there is no limit on the number of development standard waivers that may be requested or granted. The applicant

[5] *Per State Density Bonus Law section 65915(f)(1), density bonus starts at 20% for setting aside 10% of base units as lower income units. For each one percent above 10% set aside for lower income units, an additional one- and one-half percent is added to the 20% density bonus. Fractional units for density bonus units are rounded up.*

requests one waivers/reductions of development standards under Government Code Section 65915(e) to:

Staff Comment: *Currently, the Applicant is not requesting any Waivers/Reductions*

B. Parking Ratio Reductions: Pursuant to State Density Bonus Law, upon the developer's request, the City may not require more than one parking space for studio/one-bedroom units and 1.5 parking spaces for two-bedroom units for a density bonus project (inclusive of parking for persons with disabilities). These parking ratios are lower than standard City parking ratios.

Staff Comment: *The project has applied these ratios. These ratios are allowed by right under Government Code 65915.* ***Table 4*** *shows the types of units, the required ratio and requirements, and the spaces provided. The parking spaces provided by the project is in accordance with required ration under Government Code Section 65915.*

Table 4: Parking Requirements

Bedroom Type	Number of Units	Rate	Spaces Required	Spaces Provided	Compliance
Studio	36	1 space/unit	36	38	Yes
One-Bedroom	99	1 space/unit	99	101	Yes
Two-Bedroom	68	1.5 spaces/unit	102	104	Yes
Two-Bedroom + Office	20	1.5 spaces/unit	30	32	Yes
Total	223	N/A	267	275	Yes

C. **Incentive/Concessions:** In addition to the Density Bonus, the city is also required to provide one or more "incentives" or "concessions" to each project which qualifies for a density bonus. A concession or incentive is defined as:

- A reduction in site development standards or a modification of zoning code or architectural design requirements, such as a reduction in setback or minimum square footage requirements; or
- Approval of mixed-use zoning; or
- Other regulatory incentives or concessions which actually result in identifiable and actual cost reductions.

The number of incentives or concessions required to be granted by the city is based on the percentage of affordable units in the project, as shown in **Table 5** below:

Table 5: Percentage of Affordable Units and Incentives/Concessions Allowed

Number of Incentives/Concessions Allowed	Very Low-Income Percentage	Low-Income Percentage
1	5%	10%
2	10%	17%
3	15%	24%

The Project is requesting one incentive/concession under Government Code Section 65915(d) to waive the requirement that at least 51% of the project's floor area be for commercial use as defined the CMU Zoning Designation in the Three Corridor Specific Plan.

Staff Comment: *Incentives/concessions under Government Code 65915(k) mean a reduction in site development standards or a modification of zoning code requirements, including, other regulatory incentives or concessions proposed by the developer or the city, county, or city and county that would result in identifiable, financially sufficient, and actual cost reduction. Multi-family residential is a permitted use by right in the CMU Zone. However, the CMU zone requires that at least 51% of a project's floor area be commercial, and no more that 49% of the floor area be residential.*

The total square footage of the proposed apartment building is 263,862 square feet. The developer is entitled to construct this sized residential project under the City's adopted standards and the inclusion of the density bonus units. If the developer were to also comply with the requirement to include 51% commercial square footage, the project would need to include an additional 274,632 square feet of commercial space, which would presumably require the project to increase from five stories to nine or 10 stories. The 274,632 additional commercial square footage is approximately three times the size of the existing Kmart building. Such a project would not require any concessions and would be entitled to waive the otherwise applicable height limit of 6 stories. The developer has instead elected to use its concession to eliminate the requirement to provide 51% of the square footage as commercial. This is an eligible concession based on the mandates of the State Density Bonus Law.

Fiscal Impact to City

Information has been requested on the fiscal impact of the proposed project on the City. The City has obtained two analyses of the project's fiscal and/or economic impact for informational purposes. An economic impact study was prepared by the applicant's consultant (**Attachment E**), and a fiscal impact analysis was prepared by a consultant retained by the City (**Attachment F**).

The Kmart building has been located at this site since the 1980's. From 2016-2019 the Kmart revenues dropped 45 percent and the store closed in early 2019. At this point in time, the property owner has not indicated any ability and/or interest at obtaining a new "big-box" tenant or redeveloping the site for new commercial uses. Based on trends that have been occurring with retail development, medium size box stores 60,000 square feet – 95,000 square feet have been replaced with either big box stores 120,000 square feet to 200,000 square feet or smaller niche sizes, similar to the existing shops within the Pinole Vista Shopping Center.

The two studies are attached for reference. While the two studies have some overlap, they have somewhat different focuses. The fiscal impact analysis looks at City revenues and costs related to the proposed project (residential) and compared to the impacts that would result in the existing structure were re-tenanted with retail commercial uses. The economic impact study provided by the Applicant considers broader economic impacts such as construction jobs. Although there is some fiscal analysis of City revenues, there is no information in the study about costs expended by the City. It is important to note that the project's fiscal impact is not a valid basis to deny a density bonus concession or the project itself, under either state housing laws or the City's comprehensive design review requirements.

Comprehensive Design Review Findings

In order to approve the Comprehensive Design Review, the Planning Commission must find for each of the required Comprehensive Design Review findings. Each finding is listed below followed by staff comment and conclusion.

> ***Finding 1.*** *The proposed project is consistent with the objectives of the general plan and complies with applicable zoning regulations, planned development, master plan or specific plan provisions, improvement standards, and other applicable standards and regulations adopted by the city.*
>
> **Staff Comment:** *General Plan and Specific Plan policies have been identified to satisfy consistency with the project. The project is compatible with the applicable development standards for the project, and as otherwise permitted for provision of affordable housing under State Density Bonus Law.*
>
> **Staff Conclusion: Based on the discussion above, the proposed project is consistent with the General Plan, Three Corridor Specific Plan, and the City of Pinole Zoning Ordinance, and as otherwise permitted through State Law.**
>
> ***Finding 2.*** *The proposed project will not create conflicts with vehicular, bicycle, or pedestrian transportation modes of circulation.*
>
> **Staff Comment:** *The project features a new lighted crosswalk at the main entrance of the project and Fitzgerald to implement other improvements located at main intersection of Fitzgerald and the main entrance to the Pinole Vista Shopping Center. The improvement to the two entrances of the project would meet the needs of interior vehicular circulation and emergency vehicle turnaround. Vehicles would access the property via the same entries and driveways on the property. Accessible pedestrian pathways are introduced to the property that would provide pedestrian connection from the apartment to the existing businesses on the property as well as the street. Fitzgerald is designated as a Class II bicycle facility (Bike Lane) where automobiles and bicycles are separated by lane line along the road. The project does not propose changes to the public right of way that would affect its function as a bike route.*
>
> **Staff Conclusion: Based on the discussion above, the proposed project with not create conflicts with vehicular, bicycle or transportation modes of circulation.**
>
> ***Finding 3.*** *The site layout (orientation and placement of buildings and parking areas), as well as the landscaping, lighting, and other development features, are compatible with and complement*

the existing surrounding environment and ultimate character of the area under the general plan and applicable specific plans.

Staff Comment: *The project proposes infill development within an existing urban environment, and on a property that is covered with paved surfaces and structures. The plan is designed around the constraints of the existing building situated on the lot and circulation and parking areas placed around it. Much of the existing development facing Fitzgerald Drive is one to two stories, however the standards for new development allow for taller developments as the corridor continues to redevelop over time. Additionally, this new construction is set back from the street as development is located western end of the Pinole Vista Shopping Center away from the existing shopping center and setback from the Best Buy to the west. The opportunities for landscaping and open space are limited on the property, however the project proposes rooftops to provide open space, maintains the landscaping area on the property frontage, and provides landscaping strips and pockets around the property as possible while maintaining adequate room for parking and circulation. The vision of the Service Sub-Area in Appian Way Corridor SSA is intended to maintain and enhance the regional gateway area into Pinole and capitalize on freeway access to upgrade existing development and attract a desirable mix of commercial service and residential uses.*

Staff Conclusion: **Based on the above discussion, the project would be compatible with and complement the existing surrounding environment and ultimate character of the area, and as otherwise permitted under the provisions of State Law.**

Finding 4. *Qualifying single-family residential, multi-family residential, and residential mixed-use projects shall comply with all relevant standards and guidelines in the city's currently adopted design guidelines for residential development.*

Staff Comment: *The project includes the development of a multi-family residential building within the Three Corridors Specific Plan area, with the application of the State Density Bonus law. The Three Corridors Specific Plan includes design guidelines for multi-family residential projects which include design standards for massing, landscape, setbacks, and exterior building design. The project includes applicable design elements consistent with the Three Corridors Specific Plan, and as otherwise permitted through the provisions of waivers/reductions under State Density Bonus Law. Through the provision of affordable housing, the project can receive the above waivers and reductions from general standards.*

Staff Conclusion: Based on the discussion above, the project is consistent with the Three Corridors Specific Plan design guidelines, and as otherwise permitted through State Law.

In conducting comprehensive design review, the Planning Commission must take into account the following consideration. Each consideration is listed below followed by staff comment and conclusion.

Consideration 1. *Considerations relating to site layout, the orientation and location of building, signs, other structures, open spaces, landscaping, and other development features in relation to the physical characteristics, zoning, and land use of the site and surrounding properties.*

Staff Comment: *The Development Package dated June 27, 2022 (**Attachment C**), as well as the assessment of the project in this report demonstrates that the project has been designed to*

consider all of the development features applicable to the project site and surrounding properties. As described above, the project proposes development that accounts for the inherent constraints of the existing structures and layout of the property. Development would meet the applicable standards for the land use and zoning for the location, and as otherwise permitted though State Law.

Staff Conclusion: Based on the discussion in the staff report and the design package dated June 27, 2022, relating to site layout and other design features in relation to the physical characteristics of the site and surrounding properties have been made.

Consideration 2. *Considerations relating to traffic, safety, and traffic congestion, including the effect of the development plan on traffic conditions on abutting streets, the layout of the site with respect to locations and dimensions of vehicular and pedestrian entrances, exits, driveways, and walkways, the adequacy of off-street parking facilities to prevent traffic congestion, and the circulation patterns within the boundaries of the development.*

Staff Comment: *The project utilizes the existing driveway and includes design of the interior circulation on the property to account for vehicular circulation. A trip generation and vehicle miles traveled (VMT) study prepared for the project found less than significant impacts related to traffic. The project proposes shared parking and parking management strategies, including transportation demand management strategies and offsite parking arrangements, that would address parking demands, as recommended by a shared parking/transportation demand management study prepared for the project.*

Staff Conclusion: As documented in this report, the proposed project design addresses and considered traffic, safety, traffic congestion and the effect of the development on traffic conditions. The project includes appropriately designed vehicle and pedestrian entrance, exits, driveways and walkways.

Consideration 3*. Considerations necessary to ensure that the proposed development is consistent with the general plan and all applicable specific plans or other city plans, including, but not limited to, the density of residential units.*

Staff Comment: *As documented in this report, General Plan and Specific Plan policies have been identified to evaluate consistency with this project and the City of Pinole General Plan, and the Three Corridor Specific Plan. The project and proposed density have been found to be consistent with the General Plan and Three Corridor Specific Plan, and as allowed through provisions of State Density Bonus Law.*

Staff Conclusion: As documented in this report, the project is consistent with the General Plan and the Three Corridors Specific Plan.

Consideration *4. Considerations relating to the availability of city services, including, but not limited to, water, sewer, drainage, police, and fire, and whether such services are adequate based upon city standards.*

Staff Comment: *Based on a review of available utility information, this project has availability of water, sewer, drainage, police, and fire service.*

Staff Conclusion: City services are available and adequate to serve the site. Also, the developer will pay impact fees (approximately totaling almost $2.3 million dollars in one-time revenue based on the number of proposed units) to augment city services (police, fire, public facilities, transportation, drainage and parks and recreation) for this project.

Exercise and Expiration of Entitlements

The PMC Section 17.10.100.A (Time Limits) indicates: "Unless a condition of approval or other provision of this title establishes a different time limit, any permit not exercised within one (1) year of approval shall expire and become void, except where an extension of time is approved..." PMC Section 17.10.100.B. (Exercising Permits) states: "The exercise of a permit occurs when the property owner has performed substantial work and incurred substantial liabilities in good faith reliance upon such permit(s). A permit may be otherwise exercised pursuant to a condition of the permit or corresponding legal agreement that specifies that other substantial efforts or expenditures constitutes exercise of the permit." Typically, the issuance of a building permit is a standard bright line to demonstrate exercise of permit entitlements, and due to the size of the project, a one-year expiration is a very tight timeframe to produce construction drawings, apply for, and be issued a building permit. Staff is recommending allowing a two-year time limit for this entitlement, consistent with other recent entitlements approved for larger housing project. Staff has also included a condition of approval that defines the entitlement as being exercised when a Building Permit is issued for the construction of the apartment building.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) provides several Categorical Exemptions which are applicable to categories of projects and activities that the Lead Agency has determined generally do not pose a risk of significant impacts on the environment. The proposed project consists of development within the developed urban area of the City of Pinole. The project is exempt under Section 15332 of the State CEQA Guidelines (Class 32-Infill Development Projects), Sec. 15168 (Consistency with Program EIR) and Sec. 15183 (General Plan/Community Plan Exemption), and under Government Code Section 65457 (Consistency with Specific Plan). The detail of these exemptions is located in **Attachment B** of this report.

PUBLIC NOTIFICATION

Pursuant to California Government Code Section 65090 to 65094, public notice must be given at least 10 days before the scheduled date of a hearing. The notice is required to state the date, time, and place of hearing, identify the hearing body, and provide a general explanation of the matter to be considered. Notice of this hearing was provided in accordance with PMC Section 17.10.050 in the following manner:

1- Published in at least one newspaper of general circulation in the city.
2- Mailed to the owners of property within a radius of 300 feet of the exterior boundaries of the property involved in the application.
3- Mailed to the owner of the subject real property or the owner's authorized agent and to each local agency expected to provide water, sewerage, streets, roads, schools, or other essential facilities or services to the proposed project.
4- Posted at City Hall.
5- Mailed to any person who has filed a written request for notice.

Additionally, due to the size of the project, Staff provided additional notification/community engagement enhancements in the following manner:

1- Requiring a virtual community meeting hosted by the applicant (occurred on July 29, 2021).
2- Enhanced written notification including:
   a. Increasing the radius of notification from 300 feet to 1,500 feet, which increased the number of property owners in the vicinity who received notice from 44 to 448.
   b. Providing an increased notification time period, from the standard 10 days in advance of the hearing to 21 days
   c. Requiring the applicant to install large 4'x8' signs in two key locations at the property letting the public know about the application and upcoming hearing opportunity in advance of the hearing.
3- Build out of an individual development project webpage with project information, plans, studies and hearing information, developed and maintained by City staff.
4- Staff use of social media (Facebook) and City's biweekly Administrative Report to notify public of upcoming development and link to project specific pages.

TRIBAL CONSULTATION

A brief summary of the tribal consultation conducted pursuant to AB 52 is below:

- Staff sent email to all tribes within the local area on January 5, 2022 (response received on January 20, 2022, acknowledging staff for the outreach)
- Staff sent email notification on July 14, 2022 (no response)
- Staff called local tribe representatives on July 18 and 19, 2022 (no response)

Consultation pursuant to AB 52 has been completed and conditions have been added to the draft resolution which address cultural resources and procedures to preserving artifacts if found.

STAFF RECOMMENDATION

Staff recommends that the Planning Commission adopt Resolution 22-05 recommending approval of the Comprehensive Design Review and CEQA Exemption for the Pinole Vista Project located at 1500 Fitzgerald Drive (PL21-0035 & DR21-12).

ATTACHMENTS

A. Draft Resolution 22-05 – with Exhibit A, Conditions of Approval
B. CEQA Determination – CEQA Exemption, with Environmental Studies
C. Plan Set 7/6/2022 – received 7/26/2022
D. Parking Study and TDM
E. Economic Impact Study, prepared by Marin Economic Consulting, provided by applicant
F. Fiscal Impact Analysis, prepared by The Natelson Dale Group, retained by the City of Pinole

PLANNING COMMISSION RESOLUTION 22-05
WITH EXHIBIT A: CONDITIONS OF APPROVAL

RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF PINOLE RECOMMENDING APPROVAL TO THE CITY COUNCIL OF COMPREHENSIVE DESIGN REVIEW (DR21-12) TO CONSTRUCT A 223 APARTMENT COMPLEX AND MAKE SITE IMPROVEMENTS AT 1500 FITZGERALD DRIVE (APN 426-391-010)

WHEREAS, ROIC LP, c/o Metrovation/Chris Cole Inc., (Applicant) filed an application with the City of Pinole for a Comprehensive Design Review, for the purpose of constructing 223 apartments housing units and in accordance with Title 17, of the Pinole Municipal Code (the "Project"; and

WHEREAS, the Project site is located on the south side of Fitzgerald Drive on a property identified as APN 426-391-010; and

WHEREAS, the site has a General Plan Land Use Designation of Sub Service Area (SSA) and has a Specific Plan Land Use designation and Zoning designation of SSA/Appian Way Corridor/Commercial Mixed Use (CMU); and

WHEREAS, a new multifamily residential development is subject to review and approval of a Comprehensive Design Review application; and

WHEREAS, the Applicant has proposed at least 15% affordability for the units and has requested a density bonus as permitted by State Law, including concessions and waivers; and

WHEREAS, the Applicant has elected to use a concession to eliminate an otherwise applicable requirement to provide at least 51% of the square footage of the project for commercial uses; and

WHEREAS, this project successfully implements numerous policies of the General Plan; and

WHEREAS, City of Pinole General Plan and Three Corridors Specific Plan were approved, and the Environmental Impact Report (SCH Number 2009022057) was certified on October 20, 2010, by Resolution Number 2010-88, and are hereby incorporated by reference and copies of which are available at City Hall; and

WHEREAS, in compliance with California Environmental Quality Act (CEQA), the City prepared a CEQA Analysis (Attachment B of the Staff Report); and

WHEREAS, the CEQA Analysis uses streamlining provisions in accordance with CEQA Guidelines 15168(c)(2) and 15183 for consistency with the General Plan and Three Corridors Specific Plan and the certified Environmental Impact Report (EIR), as well as the categorical exemption Class 32, set forth in CEQA Guidelines Section 15332; and

WHEREAS, the CEQA Analysis identified environmental conditions of approval, which ensure implementation of applicable mitigation measures and policies set forth in the General Plan, Three Corridors Specific Plan and the corresponding EIR, and have been reviewed and agreed to by the project applicant (Exhibit A hereto); and

WHEREAS, the Planning Commission has reviewed the CEQA analysis contained in Attachment B to the staff report for this Project; and

WHEREAS, Municipal Code Section 17.38.080 provides that whenever a project is requesting concessions under the Density Bonus Law, the City Council is the decision-making authority for all required permits for the project; and

WHEREAS, the Planning Commission has considered the Project in light of the items listed in Municipal Code section 17.12.150(H); and

WHEREAS a notice of public hearing was distributed to all property owners within 1,500 feet of the Project site and a notice was published in the July 8, 2022, edition of the West County Times; and

WHEREAS the Planning Commission held a duly noticed public hearing on July 25, 2022, and considered all public comments received, the presentation by City staff, the staff report, and all other pertinent documents regarding the proposed request.

NOW THEREFORE, BE IT RESOLVED, that the above recitals are true and correct and made part of this resolution.

BE IT FURTHER RESOLVED that the Planning Commission recommends that the City Council find that Project is consistent with the programmatic EIR previously certified by the City for the Three Corridors Specific Plan and the project is an infill development project, and therefore the Project is exempt from further environmental review under the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines Section 15332 (Class 32-Infill Development Projects) and pursuant to Government Code section 65457 and CEQA Guidelines Section 15182 (Specific Plan Consistency) as further described in the CEQA analysis contained in Attachment B to the staff report dated July 25, 2022.

BE IT FURTHER RESOLVED that the Planning Commission of the City of Pinole hereby recommends that the City Council approve DR 21-12 subject to the Conditions of Approval, applicable to the entire Project, attached as Exhibit A to this Resolution and incorporated herein, and hereby makes the following findings, for the reasons provided in the Planning Commission Staff Report dated July 25, 2022and incorporated by reference:

Findings

1. The proposed project is consistent with the objectives of the general plan and complies with applicable zoning regulations, planned development, master plan or specific plan provisions, improvement standards, and other applicable standards and regulations adopted by the city.

2. The proposed project will not create conflicts with vehicular, bicycle, or pedestrian transportation modes of circulation.

3. The site layout (orientation and placement of buildings and parking areas), as well as the landscaping, lighting, and other development features, are compatible with and complement the existing surrounding environment and ultimate character of the area under the general plan and the Three Corridors Specific Plan: and

4. Qualifying single-family residential, multi-family residential, and residential mixed-use projects shall comply with all relevant standards and guidelines in the city's currently adopted design guidelines for residential development.

PASSED AND ADOPTED by the Planning Commission of the City of Pinole on this 25th day of July 2022, by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Ann Moriarty, Chair 2022-2023

ATTEST:

_____
David Hanham, Planning Manager

Exhibit A
PLANNING COMMISSION RESOLUTION 22-05 CONDITIONS OF APPROVAL

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
General Conditions				
1.	**CONVENANT –** The owner shall hold harmless the City, its Council Members, its Planning Commission, officers, agents, employees, and representatives from liability for any award, damages, costs, and fees incurred by the City and/or awarded to any plaintiff in an action challenging the validity of this permit or any environmental or other documentation related to approval of this permit. The owner further agrees to provide a defense for the city in any such action.	Ongoing	Community Development Department/ Public Works Department	
2.	**APPROVAL OF CONDITIONS ON CONSTRUCTION PLANS** – These Conditions of Approval shall be included or referenced on the coversheet of the project improvement plan and building construction plans.	Prior to issuance of Building Permit	Community Development Department	
3.	**OCCUPANCY PERMITS –** Occupancy permits shall not be granted until construction is completed and finalized in accordance with the approved plans and conditions of approval required by the City, or a bond has been posted to cover all costs of the unfinished work as agreed to by the Community Development Department.	Prior to Occupancy Permits	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
4.	**GENERAL –** All public improvements shall be made in accordance with the latest adopted Contra Costa County Standard Drawings and Specifications. All work shall conform to the applicable City ordinances. Good housekeeping practices shall be observed at all times during the course of construction. The storing of goods and materials on the sidewalk and/or street will not be allowed unless a special permit is issued. The owner's representative in charge shall be at the job site during all working hours.	During Construction	Public Works Department	
5.	**PERMITS REQUIRED BY OTHER AGENCIES** – The applicant shall obtain all permits that may be required by one or more federal, State, or local agency, service provider, or easement holder including but not limited to the following: State Department of Fish and Wildlife, Caltrans. Army Corps of Engineers, Bay Area Air Quality Management District, Kinder Morgan, EBMUD, and PG&E, County Flood Control and Water Conservation District, County Environmental Health, and the West Contra Costa Unified School District. If project is within jurisdiction of any of these agencies, verification of permit or waiver of permit must be given to the Community Development Department prior to issuance of any City permits. If the City is required to be party to the permit and an application and fee is required, the applicant shall reimburse the City for its cost. A Notice of Intent must be issued by the Regional Water Quality Control Board before a permit can be issued and a Notice of Termination must be issued at the end of the project	Prior to Issuance of Permits	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	by the Regional Water Quality Control Board before a Certificate of Occupancy is issued.			
6.	**EXERCISE OF ENTITLEMENTS** – The applicant has two (2) years to exercise the entitlement. Entitlements shall be considered exercised when a Building Permit is are issued for the apartment structure. Requests for extensions shall be in accordance with Section 17.10.100.	Prior to issuance of Building Permit	Community Development Department	
Public Works Conditions				
7.	**PERMITS, BONDS, AND INSURANCE** – The applicant shall obtain an encroachment permit, posting the required bonds and insurance, for all work to be done in the City's right-of-way. This encroachment permit shall be obtained prior to the issuance of a building permit and prior to any work being done in the City's right-of-way.	Prior to issuance of Encroachment Permits	Public Works Department	
8.	**SITE DEVELOPMENT** – The applicant shall submit a site grading and drainage plan with all supporting data, including hydraulic calculations. The plan shall be prepared by a registered Civil Engineer and be approved by the Public Works Department prior to the issuance of any City permits pursuant to PMC §15.36.	Prior to issuance of Permits	Public Works Department	

Exhibit A
PLANNING COMMISSION RESOLUTION 22-05 CONDITIONS OF APPROVAL

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
9.	**REFUSE AREA AND DESIGN –** The project shall provide for service by Republic Services. The area and access to trash, recycling, and green waste containers shall be approved in advance by Republic Services.	Prior to the issuance of Building Permit	Public Works Department	
10.	**EROSION CONTROL PLAN** – The applicant shall submit an erosion control plan in accordance with the City's Grading Ordinance (PMC §15.36.190) when grading is performed during winter season (October 1 through April 15). For all sites over one acre, in accordance with the City's Erosion Control Ordinance (PMC §08.20) the applicant shall submit: a. Storm Water Pollution Prevention Plan (SWPPP) b. Strom Water Control Plan (SCP) Certified by an Architect or Engineer. c. Operation and Maintenance.	Prior to issuance of Permits	Public Works Department	
11.	**PARKING LOTS** – The applicant shall submit plans for parking lots showing proper grading, drainage, and conformance to City engineering standards. The plans shall be prepared by a registered Civil Engineer and be approved by the Public Works Director.	Prior to issuance of Permits	Public Works Department	
12.	**MATERIAL HAULING –** The applicant shall submit a proposed material hauling route and schedule. Said submittal shall be approved by the City Engineer prior to issuance of a building or site development permit. All material hauling	Prior to issuance of Permits	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	activities including but not limited to, adherence to approved route, hours of operation, dust control and street maintenance shall be the responsibility of the applicant (as per Section 15.36.080 of the PMC). Violation of such may be cause for suspension of work.			
13.	**TREATMENT PLANT CAPACITY CONTRIBUTION –** The applicant shall pay sewer connection fees pursuant to PMC § 13.05.420 or such similar fees imposed by the West County Wastewater District, if applicable.	Prior to Issuance of Building Permits	Public Works Department	
14.	**SEWER USE FEES –** The applicant shall pay sewer use fees pursuant to PMC §13.05.430, or such similar fees imposed by the West County Wastewater District, if applicable.	Prior to issuance of Building Permits	Public Works Department	
15.	**CHARGES FOR PUBLIC WORKS** – The applicant shall deposit funds with the City to pay for all engineering, inspection and survey services that may be required during construction of the project in accord with PMC §13.05.430	Prior to issuance of Permits	Public Works Department	
16.	**INSPECTIONS** – The applicant shall notify the Public Works Department at least forty-eight (48) hours prior to staring any work pertaining to on-site drainage facilities, grading, or paving; all work in the City's right-of-way as per Section 15.36.230 of the Municipal Code.	Prior to Issuance of Permits	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
17.	**UNDERGROUND UTILITIES** – The applicant must agree to install all utility service, including telephone, electric power, and other communications lines underground as per Chapter 13.16 of the Municipal Code.	Prior to issuance of Building Permits	Public Works Department	
18.	**STORM DRAINAGE STUDY** – The applicant shall submit a completed storm drainage study of the proposed project showing amount of run-off, and existing and proposed drainage structure capacities. This study shall be subject to review and approval by the City Engineer.	Prior to issuance of Building Permits	Public Works Department	
19.	**DRAINAGE PLANS** - The applicant shall prepare a construction drainage plan and final drainage plan for Public Works Department review and approval. The construction drainage plan will show how drainage will be handled during construction. The final drainage plan will show how drainage will be handled after construction is complete. The final plans shall demonstrate capacity to manage stormwater runoff. Site design shall avoid drainage of water from one property onto another property and shall be subject to approval by the City Engineer.	Prior to issuance of Building Permit	Public Works Department	
20.	**SIDEWALK, CURB AND GUTTER REPAIR** - The applicant shall repair and replace to existing City standards, any sidewalk, curb, and gutter that is damaged now or during construction of this project. A field visit shall be scheduled with	Prior to Occupancy	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	Community Development Department and Public Works Department staff prior to the issuance of any construction permits to document pre-construction conditions in the field.			
21.	**WHEELCHAIR RAMP(S)** – The applicant shall construct all wheelchair ramp(s) in accordance with applicable California Building Code and ADA requirements.	During Construction	Community Development Department/ Public Works Department	
22.	**GRADING AND DEMOLITION PLANS –** The applicant shall obtain City approval for the project grading and demolition plans prior to issuance of building permits.	Prior to Issuance of Building Permit	Public Works Department	
23.	**CERTIFIED GRADED PAD** – A California-Licensed Engineer shall certify that the graded construction pads have been adequately compacted and designed to support the proposed buildings.	Ongoing through Construction	Public Works Department	
24.	**CONSTRUCTION SITE INFORMATION** – A construction sign shall be installed on at the construction site that has contains contact person's name, mobile phone number, and email address shall be posted on the project site during the duration of construction. The property address shall be clearly marked during the construction process.	Ongoing through Construction	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
25.	**DEBRIS REMOVAL –** All building debris shall be disposed of outside the City of Pinole to a legal dump site.	During Construction	Community Development Department	
26.	**CONSTRUCTION ACTIVITIES –** The following provisions shall be followed during site excavation, public works, and building construction activities for the project: a. Work is restricted to between 7:00A.M. and 5:00 P.M. on weekdays. Work is restricted on federal holidays. Work is allowed on holidays occurring on weekdays that are recognized by the City of Pinole, but not acknowledged federally which include Cesar Chavez's Birthday and the Day After Thanksgiving, but no inspections will be performed b. Earth haul and materials delivery to and from the site will be prohibited between the hours of 7:00 - 9:00 A.M. and 3:00 - 6:00 P.M. c. All construction vehicles should be properly maintained and equipped with exhaust mufflers and meet State and Federal standards. d. Newly disturbed soil surfaces shall be watered down regularly by a water truck maintained on site during all day light hours and construction grading activity shall be discontinued in wind conditions greater than 10	During Construction	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	miles per hour. e. Construction activities shall be scheduled so that paving and foundation placement begin immediately upon completion of grading operation. f. All excavated materials shall be covered with a tarp during transit to and from the site.			
27.	**CONSTRUCTION WASTE MANAGEMENT PLAN** – The Applicant shall submit to the Community Development Department a pre-construction waste management plan prior to the issuance of any construction permit to satisfy the CALGreen Building Code requirements.	Prior to Issuance of Permits	Community Development Department	
28.	**CONSTRUCTION WASTE MANAGEMENT REPORT – DEBRIS REMOVAL** – The applicant shall complete post-construction waste management report for review and approval by the Community Development Department prior to final inspection to satisfy CALGreen Building Code Requirements. All building debris shall be properly disposed of outside the City of Pinole.	Prior to Issuance of Permits	Community Development Department	
29.	**PRE-CONSTRUCTION MEETING** – The applicant's construction contractor(s) shall attend a pre-construction meeting as needed with City Staff to coordinate	Prior to Issuance of Permits	Community Development s Department/	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	satisfaction of conditions of approval during construction.		Public Works Department	
30.	**INSTALLATION OF LIGHTED CROSSWALK -**The applicant shall install a lighted crosswalk at the Fitzgerald Drive and the main entrance to the apartment complex	Prior to the issuance of Occupancy Permit	Community Development s Department/ Public Works Department	
31.	**SOILS REPORT –** A soils A soils report containing all design recommendations of footings, retaining walls and any other information pertinent to the soil condition shall be required. The soils report shall be prepared by a licensed soils engineer or geologist.	Prior to Issuance of Permits	Community Development s Department/ Public Works Department	
32.	**PRE-CONSTRUCTION MEETING** – The applicant's construction contractor(s) shall attend a pre-construction meeting as needed with City Staff to coordinate satisfaction of conditions of approval during construction.	Prior to Issuance of Permits	Community Development s Department/ Public Works Department	
33.	**STANDARD DRAWINGS FOR PUBLIC IMPROVEMENT** – All public improvements shall be made in accordance with the latest adopted Contra Costa County Standard Drawings and Specifications. All work shall conform to the applicable City Ordinances. Best Construction Management Practices shall be observed at	Prior to Issuance of Permits	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	all times during the course or construction			
34.	**CONSTRUCTION MANAGEMENT** – The storing of goods and materials on the sidewalk and/or street will not be allowed unless a special permit is issued. The project site shall be kept free of litter and all construction equipment and materials will be secured at the end of each construction day. The applicant's representative in charge shall be at the job site during all working hours. The public streets adjacent to construction activity shall be maintained in a clean and orderly condition to the satisfaction of the Public Works Director.	Prior to Issuance of Permits	Public Works Department	
35.	**PUBLIC WORKS INSPECTIONS**—The applicant shall notify the Public Works Department at least forty-eight (48) hours prior to the starting any work pertaining to on-site drainage facilities, grading, or paving, as well as any work in the City's Right-of-Way as per Section 15.36.230 of the PMC. The applicant shall arrange all inspections with the Public Works Inspector.	During Construction	Public Works Department	
Community Development Conditions				
36.	**AFFORDABLE HOUSING AND DENSITY BONUS AGREEMENT** – The applicant shall execute the Affordable Housing Regulatory Agreement, Density Bonus	Prior to Occupancy	Community Development	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	Agreement and Declaration of Restrictive Covenants and record the documents in the Official Records of Contra Costa County.	Permit	Department	
37.	**UTILITIES** – All electrical, telephone, water, C.A.T.V. and similar utility services which provide service to the subject building shall be installed underground. All transformers, meter boxes, etc., shall be screened from view wherever possible.	Prior to Occupancy Permits	Community Development Department/ Public Works Department	
38.	**EXTERIOR MATERIAL AND COLORS –** All exterior materials and colors shall reflect those in the plan set approved by the Planning Commission. Once installed, all improvements are to be maintained in accordance with the approved plans. Any changes which affect the exterior character shall be resubmitted to the Community Development Department for review and approval. Minor changes may be approved by the Planning Manager. Any changes determined by the Community Development Department to be significant may be referred to the Planning Commission after conferring with the Chair of the Planning Commission.	Ongoing	Community Development Department	
39.	**PARKING MANAGEMENT PLAN** – The applicant shall submit a final parking management plan for review and approval by the Planning Manager.	Prior to Issuance of Building	Community Development	

Exhibit A
PLANNING COMMISSION RESOLUTION 22-05 CONDITIONS OF APPROVAL

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
		Permit	Department	
40.	**PARKING –** The applicant shall demonstrate that the parking requirements under Chapter 17.48 of the PMC and any other building code requires for the proposed development have been fulfilled. Each parking space designated for compact cars shall be identified with a pavement marking reading "Compact Only", or its equivalent. All parking spaces intended to satisfy on-site parking requirements shall be located within the project site boundaries. Additional parking may be used to satisfy on-site parking requirements if project site boundaries change as a result of a recorded lot line adjustment or a shared parking agreement with an abutting property owner is recorded. In no case shall a shared parking agreement remove required parking for the Shopping Center.	Prior to Issuance of Building Permit	Community Development Department	
41.	**PARKING OCCUPANCY SURVEY** – A parking occupancy survey shall be conducted on the property when 100 percent of the residential units is occupied to document the actual parking characteristics of the project and if necessary, determine changes to the strategies implemented at the site, including such as adjustments to the use of the parking spaces with the existing shopping center, to ensure that the parking demand generated by the site can be met. The survey shall be provided to the City and shall include any proposed recommendation changes to meet demand, if needed.	At 100 percent of Residential	Community Development Department	
42.	**PARKING EVALUATION** – The owner shall on an annual basis evaluated parking	Ongoing	Community	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	demand and the number of offsite vehicular spaces needed. In the case of a deficit, the owner shall employ innovative solutions to reduce parking demand (such as e-bike sharing facilities) and negotiate with offsite property owners to adjust the number of spaces to meet parking demand. A written report detailing the parking evaluation shall be submitted to the Planning Manager on an annual basis. The Planning Manager shall determine whether the number of offsite parking spaces should be adjusted based on the annual parking evaluation and any further information that may be needed.		Development Department	
43.	**LIGHTING** – The plan set shall include final lighting fixtures proposed on site. Lighting shall be consistent with the illumination levels and requirements under Pinole Municipal Code Chapter 17.46, or as otherwise required for the Building Division and Police Department for code compliance and safety. Any lighting used shall be so arranged as to reflect the light away from adjoining properties or public streets.	Prior to Issuance of Occupancy Permit	Community Development Department	
44.	**MECHANICAL EQUIPMENT** – All mechanical devices and their component parts, such as air conditioners, evaporative coolers, exhaust fans, or similar equipment located wholly or partially on the roof or wall shall be screened from view. All wall mounted heating units or air conditioners shall be flush-mounted or screened from view.	During Construction	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
45.	**PARKING LOT LIGHTING** – Lights shall be provided in the parking area. All lighting used to illuminate such parking facilities shall be approved by the Planning Commission. Any lighting used shall be so arranged as to reflect the light away from adjoining residential areas or public streets. Lighting shall be installed with the intent to provide only as much light as is necessary for public safety and shall satisfy the requirements of Chapter 17.46 of the PMC.	Prior to Issuance of Occupancy Permit	Community Development Department	
46.	**VENTS, GUTTERS, AND FLASHING, ETC.** – All vents, gutters, downspout, flashings, electrical conduits, etc., shall be painted to match the color of the adjacent surface.	Prior to Occupancy Permits	Community Development Department	
47.	**TRASH ENCLOSURES –** All trash enclosures shall be constructed of sturdy, opaque materials, which are in harmony with the architecture of the nearest building and shall meet applicable Contra Costa County Health Department and City requirements. Trash enclosures shall be covered.	Prior to Occupancy Permit	Community Development Department	
48.	**NOISE STANDARDS** - The noise standards established in the General Plan shall be applicable to all developments. These noise standards apply to exterior and are: RESIDENTIAL — COMMERCIAL — INDUSTRIAL 60 dBA (Day) — 65dBA (Day & Eve) — 75 dBA (All)	Ongoing	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	55 dBA (Eve) 60 dBA (Night) 50 dBA (Night) Day: 7 a.m. to 7 p.m.; Evening: 7 p.m. to 10 p.m.; Night: 10 p.m. to 7 a.m.			
49.	**SCHOOL, GROWTH AND PARK IMPACT FEES** – Prior to issuance of a building permit, the applicant shall pay all applicable school, growth (as per Chapter 3.20 of the Municipal Code) and park (as per Chapter 16.28 of the Municipal Code) impact fee.	Prior to Issuance of Building Permit	Community Development Department	
50.	**SUBREGIONAL TRANSPORTATION MITIGATION PROGRAM (STMP) FEE** – Prior to issuance of a building permit for new construction the applicant shall pay the applicable STMP fee, pursuant to PMC §16.30.	Prior to Issuance of Building Permit	Community Development Department	
51.	**DEVELOPMENT IMPACT FEE** – The applicant shall pay all applicable development impact fees prior to issuance of the building permit	Prior to issuance of Building Permit	Community Development Department	
52.	**COST ESTIMATE** – The applicant shall obtain a cost estimate of construction permitting, including plan check and impacts fees, prior to submitting an application for a building permit.	Prior to Submittal of a Building Permit	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
53.	**GEOTECHNICAL REPORT AND FOUNDATION DESIGN** – The project shall implement the recommendations of the Geotechnical Investigation prepared by Miller Pacific Engineering Group, November 1, 2021. The project shall avoid the use of driven piles for creation of a deep foundation system. Where there are no alternatives to the use of driven piles, the project may be subject to reconsideration by Planning Commission and revised project documentation to on potential impacts, as deemed necessary by the Community Development Director.	Prior to issuance of Building Permit	Community Development Department	
54.	**GENERAL LANDSCAPING REQUIREMENTS** - The Applicant shall prepare a detailed final landscape plan. The final landscaping plan shall be prepared by a landscape architect, registered in California, and shall be submitted to the Community Development Department for review and approval prior to the issuance of a building permit. The landscape plan shall comply with Chapter 15.54 and Chapter 17.38 of the Municipal Code, be in compliance with Condition No. 63 and 64 and shall include the following: a. Sizes, species, locations of all plant materials. b. Location of all trees (6 inches in diameter or greater). c. Irrigation plan indicating all components of the irrigation system including	Prior to issuance of Building Permit	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	sprinklers and other outlets, valves, backflow prevention devices, controllers, and piping. d. All trees to be a minimum of 15 gallon, double staked and all proposed shrubs on site shall be a minimum of 5 gallon. e. Native tree species shall be used to the maximum extent as possible in the planting of new trees, with any non-natives proposed supported with a statement by the landscape architect explaining the planting palette.			
55.	**LANDSCAPING MAINTENANCE** – The property owner shall ensure landscaping areas are maintained and that dead trees and vegetation shall be replaced.	Ongoing	Community Development Department	
56.	WATER EFFICIENT LANDSCAPE – The project shall demonstrate compliance with water efficient landscape requirements pursuant to Chapter 15.54 of the PMC for review with the building permit plans.	Prior to Issuance of Building Permit	Community Development Department	
57.	**CONSTRUCTION FENCING PLAN –** The applicant shall prepare and submit a final fencing plan for the construction fencing for review and approval by the Community Development Director. All fencing for construction purposes shall be durable and remain in good throughout the life of the construction of the project.	Prior to Issuance of Building Permit	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
58.	**PERIMETER FENCING AND GATES PLAN –** The applicant shall prepare and submit a perimeter fencing and gating plan for review and approval by the Community Development Director in consultation with the Planning Commission Ad-Hoc Committee and the Pinole Police and Public Works Department. The perimeter fencing and gating for the project shall clearly delineate and separate the residential areas from the commercial shopping center, be at least 48 inches in height, constructed of attractive and high- quality materials and remain in place through the life of the residential building.	Prior to Issuance of Building Permit	Community Development Department	
59.	PARKING LOT LANDSCAPE REQUIREMENTS - All parking areas in excess of 30 stalls shall provide a minimum landscaped area of five feet in width where the facility adjoins a property line. The perimeter-landscaped strip may include any landscaped yard or landscaped area otherwise required and shall be continuous, except for required access to the site of to the parking. Interior landscaping within a parking lot containing 12 of more stalls shall include a minimum of one 15-gallon tree for each four parking spaces as per Section 17.24.050 (c) of the Municipal Code.	Prior to Issuance of Building Permit	Community Development Department	
60.	**LANDSCAPING CERTIFICATE OF COMPLETION –** A Certificate of Completion shall be submitted by either the signer of the landscape design plan, the signer of the irrigation design plan, or the licensed landscape contractor certifying that the landscape project has been installed per the approved Landscape Documentation Package.	Prior to Occupancy	Community Development Department	
61.	**TREE REMOVAL –** The applicant shall note the location of all mature trees (4 inches in diameter at breast height (measured 4.5 feet above natural grade) or	Prior to the Issuance of	Community Development	

<table>
<tr><th></th><th></th><th>Timing/ Implementation</th><th>Monitoring Department / Division</th><th>Verification (date and Signature)</th></tr>
<tr><td></td><td>greater) to be removed from the project site and submit a tree permit application prior to issuance of a building permit</td><td>Building Permit</td><td>Department</td><td></td></tr>
<tr><td>62.</td><td><u>ARBORIST REPORT</u> – The project shall comply with the recommendations in the Arborist Report, prepared by WRA Environmental Consultants, dated October 26, 2021, for tree protection and preservation guidelines.</td><td>Prior to Issuance of Building Permits</td><td>Community Development Department</td><td></td></tr>
<tr><td>63.</td><td><u>STANDARD TREE REPLACEMENT REQUIREMENTS</u> – All trees that are removed from the site shall be replaced in accordance with the replacement table for existing trees. Any non-protected tree, which is removed, that was shown to be preserved on the final landscaping plan shall be replaced at twice the rate indicated on the replacement table.

<u>STANDARD REPLACEMENT TABLE FOR EXISTING TREES</u>
<table>
<tr><th>Size of Tree to be removed (Trunk Diameter)</th><th>36 Inch Box</th><th>24 Inch Box</th><th>15 Gallon</th><th>5 Gallon</th></tr>
<tr><td>6” to18”</td><td>1</td><td>2</td><td>10</td><td>15</td></tr>
</table></td><td>Prior to Occupancy Permits</td><td>Community Development Department</td><td></td></tr>
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<table>
<tr><td>18” to 24”</td><td>2</td><td>4</td><td>15</td><td>25</td></tr>
<tr><td>24” to 36”</td><td>3</td><td>6</td><td>20</td><td>45</td></tr>
<tr><td>36” & Over</td><td>4</td><td>8</td><td>30</td><td>60</td></tr>
</table>
Numbers in replacement table refers to quantities to be used to replace each tree. Each tree container size number in the vertical column represents a 100% replacement value for an existing tree removed (size as noted). These numbers (columns) may be mixed as long as proportionate totals will equal 100%. For example: one 24" tree may be replaced with six 24" box trees or three 24" box trees plus ten 15-gallon trees or one 36" box tree plus four 24" box trees, etc.</td><td></td><td></td><td></td></tr>
<tr><td>64.</td><td><u>PROTECTED TREE REPLACEMENT REQUIREMENTS - All trees designated as Protected trees pursuant to PMC Chapter 17.98, and which are approved for removal through a Tree Removal Permit issued by the City shall be replaced at a ratio of two replacement trees for each removed Protected tree and in compliance with the following:</u>
a) <u>For each removed Protected tree, one</u> 48-inch or 60-inch box tree, and one 36-inch box trees shall be planted as replacement trees.
b) The species of replacement trees and exact planting location is subject to review and approval by the Community Development Director, in consultation with the Planning Commission Ad-Hoc Subcommittee.</td><td>Prior to the Issuance of Building Permit (tree removal plan)

Prior to Occupancy Permits (installation of landscaping)</td><td>Community Development Department</td><td></td></tr>
</table>

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	c) The species selection shall be drought-tolerant and native, shall complement the architectural design of structures on the site, and shall be suitable for the soil and climatic conditions specific to the site. d) A protected tree removal plan, pursuant to PMC Section 17.96.060.D, shall be submitted indicating which protected trees can be removed and shall be used by the Community Development Director to issue a protected tree removal permit in compliance with the action taken on the entitlements.			
65.	**CHILDREN'S PLAY AREA-** The applicant shall revise the plans to include an additional children's play space in one of the courtyards. The play space may be for active children's play, if space allows, or for passive play. The plans shall be reviewed for comment by the Planning Manager prior to submittal to the City.	Prior to the Issuance of Building Permit		
66.	**CONFORMANCE WITH APPROVED PLANS –** All building permit drawings and subsequent construction shall substantially conform to the approved planning application drawings. Any modifications must be reviewed by the Planning Manager who shall determine whether the modification requires additional approval of the Planning Commission or City Council.	Prior to Issuance of Building Permits	Community Development Department	
67.	**MODIFICATION OF APPROVED PLANS** – Failure to obtain prior approval to modify the approved plans may result in a fine equal to double the original	Ongoing	Community Development	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	planning application permit fee and/or withholding of the occupancy permit until such time as the modification(s) to the plans has been reviewed by the Planning Commission or City Council.		Department	
68.	**VIOLATION/PENALTY –** Any person, firm or corporation, whether as principal, agent employee or otherwise, violating any of the provisions in Title 17 of the Municipal Code or any condition of an approval, permit or license granted pursuant to the provisions of this same title shall be deemed guilty of an infraction, punishable on the first offense by a fine not exceeding one hundred dollars, and on the second offense by a fine not exceeding two hundred dollars and on the third offense and subsequent violation by a fine not exceeding five hundred dollars and shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of this title is committed, continued or permitted by such person, firm or corporation.	Ongoing	Community Development Department	
69.	**STREET ADDRESS ASSIGNMENT** – An Address Assignment Plan for the project shall be submitted for review and approval and shall be reflected in the submitted building plans.	Prior to issuance of Building Permit	Community Development Department	
70.	**SITE MAINTENANCE** – The construction site shall be cleaned of garbage and debris on a daily basis and maintained in an orderly fashion. All construction equipment shall be secured at the end of each day of construction.	Ongoing through end of construction	Community Development Department	

Exhibit A
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		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
Building Conditions				
71.	**BUILDING CODES –** At time of issuance of building permits, the building shall comply with Chapter 15 of the Municipal Code and State Title 24 and the U.S. Americans with Disabilities Act.	Prior to issuance of Building Permit	Building Division	
72.	**INSPECTIONS** – The applicant shall arrange all inspections with the Building Division, Fire Department, and Public Works Department. All Building Division inspection requests shall be made at least 24 hours in advance.	Prior to issuance of Occupancy Permits	Building Division	
73.	**GEOTECHNICAL/SOILS REPORT** - A geotechnical/soils report containing all design recommendations of footings, retaining walls and any other information pertinent to the soil condition shall be required and submitted with the permit application. The soils report shall be prepared by a licensed soils engineer or geologist.	Prior to issuance of Permits	Community Development Department / Public Works Department	
74.	**SOILS REPORT** – A soils report containing all design recommendations of footings, pier holes, retaining walls, and any other information pertinent to the soil condition shall be submitted. The Soils Report shall be prepared by a licensed soils engineer or geologist	Prior to issuance of Building Permit	Building Division	

Exhibit A
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		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
75.	**DESIGN-LEVEL GEOTECHNICAL INVESTIGATION** – The applicant shall submit a design-level geotechnical exploration, which includes performance of a soil boring or other exploration in the southeast corner of the property in order to confirm continuous soil stratigraphy and a lack of evidence indicative of nearby faulting.	Prior to issuance of Permits	Community Development Department / Public Works Department	
76.	**PLAN CHECK FEES –** A plan check fee shall be paid to the Building Division at time of submission of plans pursuant to PMC §15.02.060	Prior to issuance of Building Permit	Building Division	
77.	**CONTRACTORS** – Contractors must identify all subcontractors prior to issuance of a building permit. Each subcontractor must obtain a city business license prior to issuance of a building permit or commencing work pursuant to PMC §5.04.020.	Prior to issuance of Building Permit	Building Division	
78.	**SMOKE DETECTORS –** Smoke detectors are required in all residential units pursuant to PMC §12.10(a) and applicable Building Code.	Prior to issuance of Occupancy Permits	Building Division	
79.	**ADDRESSING –** Prior to issuance of a "Certificate of Occupancy" or final building inspection approved numbers and addresses shall be installed on all buildings in compliance with Section 15.02.050 of the Municipal Code:	Prior to issuance of Certificate of Occupancy	Building Division	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	a. Specific mounting location shall be determined at the time of plan review. b. Address shall be internally or externally lighted during the hours of darkness. c. Each building within a multiple family, commercial and industrial complex shall have an address on it. If there is more than one building per address, each building shall have an address that is unique from the other buildings. d. Each multiple family unit shall have an address attached to the door or near the door that clearly identifies it. e. Addressing plans for multiple family, commercial and industrial complexes shall be submitted for review.			
80.	**DEBRIS BOX –** The Applicant shall ensure that prior to commencing construction a contractor shall place on-site a minimum 10 cubic yard "debris box" for receiving and holding of all construction debris."	Prior to Construction	Building Division	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
81.	**CONSTRUCTION NUISANCE PREVENTION** – The following provisions shall be followed during all construction activities for the project a. Prior to any earth hauling operations, the applicant shall submit a Hauling Plan for review and approval by the City Engineer. b. When Pinole Middle and/or West County Mandarin School (1575 Mann Drive) is in session, all construction related traffic on Appian Way shall be prohibited during designated pick-up and drop off hours. c. All construction vehicles shall be properly maintained and equipped with exhaust and mufflers that meet state and federal standards. d. Newly disturbed soil surfaces shall be watered down regularly by a water truck maintained on-site during all daylight hours discontinue when winds speed reach 15mph	Ongoing	Building Division	
Police Department Conditions				
82.	**FIBER OPTICS** – A fiber optics pathway shall be installed from the project site to the nearest existing fiber optics connection point to the satisfaction of the	Prior to Certificate of	Police Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	Building Official. Specifications for the pathway, fiber, interfacing equipment, and junction boxes are available at the Police Department. The equipment necessary to interface with the fiber optics shall be in place in the alarm control panels (fire, burglar, etc.) upon completion of construction	Occupancy Permit		
83.	**DOORS AND ROOF HATCHES** – The following conditions shall be met to the satisfaction of the Building Official prior to issuance of a Certificate of Occupancy. a. All exterior doors (including storage and utility room doors) that exit to the outside, to a common hallway or separate units shall be of solid core wood or metal construction. b. All doors described above shall be equipped with the following locking mechanisms: Dead Bolt Locks: i. A minimum of ¾ inch diameter by 1-inch throw. ii. High security case hardened bezel around the locking mechanism. iii. Made of case-hardened steel. iv. High security striker plate (4-screw type, screws a minimum of 1½ inches long).			

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	c. All double doors shall have a dead bolt lock, as described in b above, in the primary door. The secondary door shall have lock mechanisms that secure the top of the door to the door head and the bottom of the door to the floor. Where the double doors are separated by a mullion both doors shall have dead bolts as described in b, above. d. All entry doors, except those with glass, shall be equipped with a door viewer that has the capabilities of viewing a minimum of 180 degrees. e. Fire blocks shall be placed at a minimum of two (2) studs' spaces on each side of an exterior door, where locks are required, at the same height as the locks. The design and materials used shall aide in preventing the doorjamb from spreading when a pry tool is used to separate the door from the doorjamb at the lock. f. All roof hatches (access to roof) shall be securely locked from the inside. Dead bolt or similar locking mechanism is recommended.			
84.	**WINDOWS AND SLIDING GLASS DOORS** – All windows that are accessible from the ground, balconies, walkways, trees, fences, and roof shall be equipped with an auxiliary locking mechanism in addition to the standard manufacturer's lock.	Prior to Certificate of Occupancy Permit	Police Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
85.	**ALARM SYSTEM (MULTI-FAMILY)** – Each individual unit shall be equipped with a burglar alarm system, installed by state licensed contractor. The system shall include:	Prior to Certificate of Occupancy Permit	Police Department	
86.	**LANDSCAPING** a. All landscaping shall be of a variety and type that upon reaching maturity will not provide concealment for a human being and will not grow to cover windows, doors, light fixtures, or addresses. b. Bushes/dense vegetation trimmed to 2' or less c. Trim tree canopies to 6' or higher d. All trees shall be planted a sufficient distance from the buildings so that upon reaching maturity they will not provide roof access.	Prior to Certificate of Occupancy	Police Department	
87.	**PUBLIC AREA LIGHTING** a. All exterior doorways, stairwells, pathways, walkways, hallways, and courtyards for commercial and industrial buildings shall be lighted to a minimum of 2-foot candles, minimum maintained, measured at 5 feet above ground. b. Parking areas for commercial and industrial buildings shall be lighted to a standard of 2-foot candles, minimum measured at ground level where beams overlap.	Prior to Certificate of Occupancy	Police Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	c. Except as otherwise noted, all security light fixtures shall be mounted a minimum of 10 feet above ground. d. All required lighting shall be equipped with a photoelectric cell or equivalent technology to turn it on at sunset and off at daybreak. e. All areas where video camera surveillance is required shall meet the standards for the camera selected and approved by the Police Department. f. Separate photometric plans shall be submitted for review in conjunction with proposed phased development submittal to ensure adequate lighting is provided for each of the proposed buildings and for the overall project site. g. Lighting shall be on a timer for evening hours. h. The front parking lot is dark. The recommendation is to update lighting to LEDs and following the current foot candle requirement as part of the overall project.			
88.	**RADIO RECEPTION** - Prior to occupancy, the owner shall contact the Police Department to provide Police with the opportunity to test radio reception in the buildings to identify any reception issue.	Prior to Certificate of Occupancy	Police Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
89.	**ARCHITECTURAL COMMENTS** – Rooftop: The project shall include general safety features associated with people congregating on the roof tops and the play structure on the apartment roof shall have adequate perimeter height to promote safety.	Prior to Certificate of Occupancy	Police Department	
90.	**EXTERNAL VIDEO SURVEILLANCE** – Video surveillance cameras shall be required, including all outdoor common areas. Management and employees shall be required to know how to operate the system and playback of files shall be compatible with Windows Media Player. Placement of the video surveillance cameras shall be established by the Police Department after review of the plans and intended use of the project. Cameras shall be capable of being monitored from the Police Department upon completion of project.	Prior to Certificate of Occupancy	Police Department	
Fire Department Conditions of Approval				
91.	**FIRE CODE CONFORMANCE** – Compliance with the 2019 CFC (California Fire Code), 2019 CBC, (California Building Code) the 20149 NFPA 13 Standards, the NFPA 72 standards, and all local ordinances as they apply to the occupancy and use of the proposed structure and shall be enforced for the scope of work and	Prior to issuance of Building Permit	Fire Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	occupancies of the project redevelopment plan. Compliance with all other NFPA standards is required where applicable and to the satisfaction of the Fire Marshall and/or Fire Chief.			
92.	**CONSTRUCTION PLANS FOR FIRE PREVENTION** – Prior to issuance of a building permit, building construction plans and plans for fire extinguishing system shall be submitted for Fire Code plan check.	Prior to issuance of Building Permit	Fire Department	
93.	**TURNING RADIUS –** Fire apparatus turning radius shall be in compliance with the Contra Costa County Standard to accommodate the largest fire truck apparatus.	Prior to issuance of Building Permit	Fire Department	
94.	**FIRE EXTINGUISHING SYSTEM -** An automatic fire extinguishing/ sprinkler system is required to be installed	Prior to issuance of Building Permit	Fire Department	
95.	**FIRE ACCESS** – Prior to issuance of a building permit, paved fire apparatus roads shall be installed for every building or stockpile of combustible materials located more than 150 feet from fire department vehicle access. Said access roads are to be posted "No Parking Fire Lane" and shall not be used for storage of materials. Fire apparatus turning radius shall be in compliance with the Contra Costa County Standard to accommodate the largest fire truck apparatus	Prior to issuance of Building Permit	Fire Department	

Exhibit A
PLANNING COMMISSION RESOLUTION 22-05 CONDITIONS OF APPROVAL

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
96.	**ADDRESS** – Addresses shall be a minimum of 6" on a contrasting background visible from the street pre/post construction. Exterior elevated corners of structures shall have 12" numbers.	Prior to Building Permit Final	Fire Department	
97.	**KEY VAULT –** In order to facilitate emergency access to the structure, a key vault shall be installed as approved by the Fire Department.	Prior to Building Permit Final	Fire Department	
98.	**WATER SUPPLY SYSTEM** – Prior to issuance of a building permit there shall be an approved and tested water supply system capable of supplying the required fire flow as determined by the Fire Chief or Fire Marshall. Water supply system for staged construction shall provide required fire flows.	Prior to issuance of Building Permit	Fire Department	
99.	**FIRE PREVENTION FEES AND INSPECTION** – Prior to issuance of a Certificate of Occupancy or final building inspection, the applicant shall pay all applicable fees in accordance with the City's Master Fee Schedule and obtain an inspection from the Fire Department. All meetings and inspections shall require a 48-hour advanced notice.	Prior to issuance of Building Permit	Fire Department	

Exhibit A
PLANNING COMMISSION RESOLUTION 22-05 CONDITIONS OF APPROVAL

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
100	**FIRE TRAINING** – The applicant shall meet with the Fire Department for the purposes of utilizing existing structures for Fire Training exercises prior to issuance of a demolition permit.	Prior to issuance of Building Permit	Fire Department	
Environmental Conditions				
101	**EVN-AQ-1:** During all construction activities including demolition and ground disturbance activities, on and offsite, the contractor shall implement the latest BAAQMD recommended Best Management Practices (BMPs) to control for fugitive dust and exhaust as follows: a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. b. All haul trucks transporting soil, sand, or other loose material shall be covered. c. All visible mud and dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. d. All vehicle speeds on unpaved roads shall be limited to 15 mph. e. All roadways, driveways, and sidewalks to be paved shall be completed as	Prior to issuance of Building Permit	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	soon as practicable. Building pads shall be laid as soon as practicable after grading unless seeding or soil binders are used. f. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. g. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper working condition prior to operation. h. A publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints shall be posted on the project site prior to the initiation of construction activities. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.			
102	**EVN-BIO-1:** To avoid and minimize potential impacts to nesting birds	Prior to issuance	Community	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	including passerines and raptors, the following measures shall be implemented: 1. Grading or removal of potentially occupied habitat should be conducted outside the nesting season, which occurs between approximately February 1 and August 31. 2. If grading between August 31 and February 1 is infeasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird survey (migratory species, passerines, and raptors) of the potentially occupied habitat (trees, shrubs, grassland) shall be performed by a qualified biologist within 7 days of groundbreaking. If no nesting birds are observed no further action is required and grading shall occur within one week of the survey to prevent "take" of individual birds that could begin nesting after the survey. 3. If active bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the occupied habitat until the young have fledged, as determined by a qualified biologist. 4. The radius of the required buffer zone can vary depending on the species, (i.e., 75-100 feet for passerines and 200-500 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified	of Building Permit	Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	biologist in consultation with CDFW. 5. To delineate the buffer zone around the occupied habitat, construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude. 6. Biological monitoring of active nests shall be conducted by a qualified biologist to ensure that nests are not disturbed and that buffers are appropriate adjusted by a qualified biologist as needed to avoid disturbance. 7. No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed.			
103	**EVN-BIO-2:** Prior to any tree removal or alteration, the applicant shall obtain approval from the City of Pinole to implement a plan for tree preservation and replacement in accordance with the City's Tree Removal Permit. Replacement of protected trees onsite shall be replaced by either planting trees onsite as part of the development over and above the landscaping that would otherwise be	Prior to issuance of Building Permit.	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	required at a value equal to the value of the protected trees that will be removed, or through the payment of an in-lieu fee to the City in an amount equal to the value of the protected trees that will be removed.			
104	**EVN-CUL-1:** To ensure the Project does not result in impacts to buried archaeological resources onsite, if present, the following shall be implemented: a. **Training**. Prior to commencement of ground-disturbing activities, a Secretary of the Interior-qualified archaeologist shall conduct a preconstruction training for construction personnel. The training shall familiarize individuals with the potential to encounter prehistoric artifacts or historic-era archaeological deposits, the types of archaeological material that could be encountered within the Project Area, and the requirement for a monitor to be present during initial ground-disturbing activities. b. **Monitoring**. During initial ground disturbing activities on native soils, a Secretary of the Interior-qualified archeologist shall conduct mechanical presence/absence exploration in the portions of the Project Area that will be subject to ground disturbing activities to verify the presence/absence of prehistoric archaeological resources associated with CA-CCO-421 (P-07-000453). The presence/absence exploration shall access the stratigraphy extending to the depth of the proposed excavation in the	Prior to issuance of Grading Permit	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	respective area. The Archaeologist shall also monitor subsequent initial ground disturbing activities in native soil. The monitor shall have the authority to temporarily halt work to inspect areas as needed for potential cultural materials or deposits. Daily monitoring logs shall be completed by the monitor. c. **Post-review Discoveries**. In the event that cultural resources are exposed during construction, all earth work occurring within 100 feet of the find shall be immediately stopped until a Secretary of Interior-qualified Archaeologist inspects the material(s), assess historical significance, consults with Tribes and other stakeholders as needed, and provides recommendations for the treatment of the discovery. d. **Archaeological Monitoring Report**: Within 60 days following completion of construction work, an archeological monitoring report shall be submitted to the City. The report shall include the results of the monitoring program (even if negative), a summary of any findings or evaluation/data recovery efforts, and supporting documentation (e.g., daily monitoring logs).			
105	**EVN-CUL-2:** In the event that human remains are encountered within the Project Area during Project-related, ground-disturbing activities, all work must stop, and the County Coroner immediately notified of the discovery. If the	During Construction	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	County coroner determined that remains are, or are believed to be Native American, then the Native American Heritage Commission must be contacted by the Coroner so that a "Most Likely Descendant" (MLD) can be designated to provide further recommendations regarding treatment of the remains. A Secretary of Interior-qualified Archaeologist should also evaluate the historical significance of the discovery, the potential for additional human remains to be present, and to provide further recommendations for treatment of the resource in accordance with the MLD recommendations. Federal regulations require that Native American human remains, funerary objects, and object of cultural patrimony are handed consistent with the requirement of the Native American Graves Protection and Repatriation Act.			
106	**EVN-GEO-1**: The applicant shall incorporate the recommendations of the Project Geotechnical Report prepared by Miller Pacific Engineering Group (November 1, 2021) into construction drawings. As determined by the City Engineer and/or Chief Building Official, all applicable recommendations set forth in the in Geotechnical Report prepared for the subject property, including, but not limited to grading, excavation, foundations systems, and compaction specifications shall be incorporated. Final grading plan, construction plans, and building plans shall demonstrate that recommendations set forth in the geotechnical reports and/or to the satisfaction of the City Engineer/Chief	Prior to issuance of Grading Permit	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	Building Official have been incorporated into the design of the project. Nothing in this mitigation measure shall preclude the City Engineer and/or Chief Building Official from requiring additional information to determine compliance with applicable standards. The geotechnical engineer shall inspect the construction work and shall certify to the City, prior to issuance of a certificate of occupancy that the improvements have been constructed in accordance with the geotechnical specifications.			
107	**EVN-GEO-2:** Prior to issuance of a grading permit, an erosion control plan along with grading and drainage plans shall be submitted to the City Engineer for review. The project shall comply with stormwater management requirements and guidelines established by Contra Costa County under the Contra Costa Clean Water Program Stormwater C.3 Guidebook and incorporate Contra Costa County best management practices for erosion and sediment control for construction. All earthwork, grading, trenching, backfilling, and compaction operations shall be conducted in accordance with the City's Erosion Control requirements, Chapter 15.36.190 of the Municipal Code. Plans shall detail erosion control measures such as site watering, sediment capture, equipment staging and laydown pad, and other erosion control measures to be implemented during all	Prior to issuance of Grading Permit	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	construction activity.			
108	**EVN-GEO-3:** Should any potentially unique paleontological resources (fossils) be encountered during development activities; work shall be suspended within 50 feet of the discovery and the City of Pinole Planning Division of the Community Development Department shall be immediately notified. At that time, the City will coordinate any necessary investigation of the discovery with a qualified paleontologist. The project proponent shall be required to implement any mitigation necessary for the protection of paleontological resources. The City and the project applicant shall consider the mitigation recommendations of the qualified paleontologist for any unanticipated discoveries. The City and the project applicant shall consult and agree upon implementation of a measure or measures that the City and project applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures.	During Construction	Community Development Department	
109	**HAZ-1:** The Project applicant shall implement the following Best Management Practices (BMPs) regarding potential soil hazards: a) Soil generated by construction activities shall be stockpiled onsite in a secure and safe manner or if designated for off-site disposal at a			

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	permitted facility, the soil shall be loaded, transported, and disposed of in a safe and secure manner. All contaminated soils determined to be hazardous or non-hazardous waste must be adequately profiled (sampled) prior to acceptable reuse or disposal at an appropriate off-site facility. Specific sampling and handling and transport procedures for reuse or disposal shall be in accordance with applicable local, state, and federal laws, the Regional Water Quality Control Board (RWQCB), the Contra Costa Environmental Health Services Department, and the City of Pinole. b) Groundwater pumped from the subsurface shall be contained onsite in a secure and safe manner, prior to treatment and disposal, to ensure environmental and health issues are resolved pursuant to applicable laws and policies of the City of Pinole, the RWQCB and/or Contra Costa Environmental Health Services Department.			
110	**HAZ-2** Prior to issuance of any demolition, grading, or building permit, the applicant shall submit a report resulting from a comprehensive asbestos survey and, if asbestos containing materials (ACM) are identified onsite, plans for safe removal. If ACM are verified, the applicant shall prepare an Operations and Maintenance (O&M) Safety Plan and receive approval of the O&M Plan by the City of Pinole Fire Department. The purpose of the O&M Plan is to establish protocol for the removal and disposal of ACM	Prior to issuance of Demolition, Grading, and Building Permits	Community Development Department/ Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	and shall also address the potential for accidental discovery of hazards and hazardous materials during construction activities including lead-based paints and groundwater contamination. Said plans shall be implemented during demolition and construction activities including the following: a) Use appropriate site control measures such as wet methods to minimize airborne dust generation. b) Identify construction worker protection plan for handing ACM. c) Characterize material export and proper disposal requirements. Notification requirements to the Bay Area Air Quality Management District in accordance with the Asbestos Demolition and Renovation Program requirements			
111	**EVN-HYD-1:** Prior to issuance of a building permit, the applicant shall prepare a design-level Stormwater Management Plan that incorporates stormwater management requirements and best management practices, per Pinole Municipal Code Chapter 8.20 and Contra Costa County Clean Water Program requirements, including the Contra Costa Clean Water Program Stormwater C.3 Guidebook and demonstrates that the storm drain system has adequate capacity to serve the project. The Stormwater Management Plan shall be reviewed and accepted by the City Engineer.	Prior to issuance of Building Permit	Public Works Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
112	**EVN-HYD-2:** Prior to issuance of a grading permit, the applicant shall file a Notice of Intent with the RWQCB and demonstrate compliance with the Statewide General Permit for Construction Activities. In accordance with the National Pollution Discharge Elimination System (NPDES) regulations, the applicant shall prepare and implement a project-specific Stormwater Pollution Prevention Plan, including an erosion control plan, for grading and construction activities. The SWPPP shall address erosion and sediment control during all phases of construction, storage, and use of fuels, and use and clean-up of fuels and hazardous materials. The SWPPP shall designate locations where fueling, cleaning and maintenance of equipment can occur and shall ensure that protections are in place to preclude materials from entering into storm drains. The contractor shall maintain materials onsite during construction for containments and clean-up of any spills. The applicant shall provide approval documentation from the RWQCB to the City verifying compliance with NPDES.	Prior to issuance of Grading Permit	Public Works Department	
113	**EVN-NOI-1:** Construction activities including delivery and hauling shall comply with construction hours as provided under Pinole Municipal Code Section 15.02.070 and in accordance with construction best management practices for minimizing noise including:	During Construction	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	1. Construction shall be limited to the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday, excluding holidays. Saturday work is allowed in commercial zones only, from 9:00 a.m. to 6:00 p.m., as long as it is interior work and does not generate significant noise. Any work outside of these hours by the construction contractors should require a special permit from the City Manager. There should be compelling reasons for permitting construction outside of these designated hours. 2. Construct temporary noise barriers, where feasible, to screen adjoining land uses. Temporary noise barrier fences would provide a 5 dBA noise reduction if the noise barrier interrupts the line-of-sight between the noise source and receptor and if the barrier is constructed in a manner that eliminates any cracks or gaps. 3. The contractor shall use “new technology” power construction equipment with state-of-the-art noise shielding and muffling devices. All internal combustion engines used on the project site shall be equipped with adequate mufflers and shall be in good mechanical condition to minimize noise created by faulty or poorly maintained engines or other components.			

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	4. The unnecessary idling of internal combustion engines shall be prohibited. 5. Staging areas and stationary noise-generating equipment shall be located as far as possible from noise-sensitive receptors. 6. Ensure that generators, compressors, and pumps are housed in acoustical enclosures. 7. Locate cranes as far from adjoining noise-sensitive receptors as possible. 8. Substitute nail guns for manual hammering and electrically powered tools for noisier pneumatic tools, where feasible. 9. A “noise disturbance coordinator” shall be designated to respond to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaints (e.g., beginning work too early, bad muffler, etc.) and institute reasonable measures warranted to correct the problem. A telephone number for the disturbance coordinator would be conspicuously posted at the construction site.			

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
114	**EVN-NOI-2** The following measures shall be incorporated to reduce interior noise levels to 45 dBA DNL or less at residential interiors: 1. Provide a suitable form of forced-air mechanical ventilation, as determined by the local building official, for all residential units on the project site, so that windows can be kept closed at the occupant's discretion to control interior noise and achieve the interior noise standards. 2. Residential units along the northern building façade should be provided with windows and doors having a minimum rating of 30 Sound Transmission Class (STC) and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL. 3. Residential units along the western and eastern building façades should be provided with windows and doors having a minimum rating of 28 STC and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL. 4. A qualified acoustical specialist shall conduct a unit-by-unit analysis of interior residential noise levels and recommend building treatments to reduce interior noise levels to 45 dBA DNL or less. Treatments would include, but are not limited to, sound-rated windows and doors, sound-rated wall and	Ongoing	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	window constructions, acoustical caulking, protected ventilation openings, etc. Results of the analysis, including the description of the necessary noise control treatments, shall be submitted to the City, along with the building plans and approved design, prior to final of a building permit.			
115	**EVN-TRAN-1**: Prior to the issuance of Building Permit, the applicant shall provide the Project's fair share contribution as established by the City towards multi-modal improvements in the Project vicinity as identified in the Three Corridors Specific Plan.	Prior to issuance of Building Permit	Community Development Department	
116	**EVN-TRAN-2**: To maintain adequate sight lines at the project driveways, pursuant to Pinole Municipal Code Section 17.98.020, signage, trees, and other landscaping features within the clear vision triangle at driveway and street intersections shall be maintained such that visibility is maintained between thirty (30) inches and seven (7) feet. The applicant shall be responsible for maintaining adequate sight lines from the project driveways, on-street parking on Fitzgerald	Ongoing	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	Drive is prohibited, and vegetation shall be trimmed to about one foot in height on the west sides of the driveways.			
117	**EVN-TRAN-3** Prior to final occupancy, the applicant shall reconstruct the westerly driveway to the Project site such that it is at grade with Fitzgerald Drive to improve sightlines.	Prior to Occupancy Permits	Community Development Department	
118	**EVN-TRAN-4**: Prior to final occupancy, the applicant shall construct a pedestrian-refuge median island along with high visibility continental markings, yield line striping, and a flashing "Yield Here to Pedestrian" sign at the intersection of the easterly driveway to the Project and Fitzgerald Drive	Prior to Occupancy Permits	Community Development Department	
119	**EVN-TRAN-5** Prior to issuance of the certificate of occupancy, a final Transportation Demand Management Plan shall be provided to the Community Development Department for review and approval. The TDM Plan shall include example materials that will be used to educate residents about the programs, designate a staff position as the Transportation Coordinator, and detail the program implementation schedule which should commence with occupation of the building.	Prior to Occupancy Permits	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
120	**ENV-TCUL-1:** To protect buried Tribal Cultural Resources that may be encountered during construction activities, the Project shall implement environmental COA CUL-1 and COA CUL-2.	During Construction	Community Development Department	
121	**ENV-UTIL-1:** Pursuant to Action GM 2.2.1 Service Standards, prior to issuance of a building permit, the applicant shall secure verification from EBMUD that adequate water supplies are available to serve the project and prior to issuance of occupancy the applicant shall demonstrate that all EBMUD water efficiency requirements have been fulfilled.	Prior to issuance of building permit	Public Works Department	
122	**ENV-UTIL-2:** Pursuant to MM 4.12.6.2, the project shall secure a can and will serve letter demonstrating that there is sufficient sewer/water treatment and conveyance capacity prior to issuance of Certificate of Occupancy. The proposed project shall have a unique connection to the public sewer collection system. The connection to the sewer system will require a permit from the City of Pinole, the payment of sewer user fees, and payment of a sewer connection fee prior to the issuance of building permits.	Prior to Certificate of Occupancy	Community Development Department	
123	**ENV-UTIL-3:** Pursuant to General Plan Action CS.8.1.3 and in accordance with current CalGreen Building Code requirements, a Construction Waste Management Plan shall be prepared and implemented during all stages of construction. The Construction Waste Management Plan shall meet the	Prior to issuance of Building Permit	Community Development Department	

		Timing/ Implementation	Monitoring Department / Division	Verification (date and Signature)
	minimum requirements of the CalGreen code for residential development including but not limited to regional material sourcing (A5.405.1), Bio-based materials (A5.105.2), Reused materials (A5.405.3), and materials with a recycled content (A5.405.4).			
124	**ENV-UTIL-4:** In accordance with CalGreen Section 4.410.2 onsite recycling shall be provided in readily accessible areas for the depositing, storage and collection of non-hazardous materials including at a minimum paper, cardboard, glass, plastics, organic waste, and metals.	Ongoing	Community Development Department	
125	**ENV-UTIL-5:** The applicant shall coordinate with Republic Services to appropriately size trash enclosures and ensure that maximum waste stream diversion occurs by providing onsite pre-sorting for recyclables and green waste for compostable and organic materials as available.	Ongoing	Community Development Department	

*Note: Conditions of Approval beginning with "ENV" are based on the CEQA document for the project.

Attachment B

ENVIRONMENTAL CHECKLIST

PURSUANT TO CALIFORNIA PUBLIC RESOURCES CODE SECTION 21083.3, GOVERNMENT CODE SECTION 65457(a) AND CEQA GUIDELINES SECTIONS 15168 and 15183

PINOLE VISTA PROJECT

Prepared For:

City of Pinole
2131 Pear Street
Pinole, CA 94564

July 2022

PINOLE VISTA PROJECT
CEQA ENVIRONMENTAL CHECKLIST

Project Title:	Pinole Vista Project	
Lead Agency:	City of Pinole 2131 Pear Street Pinole, CA 94564	
Contact Person:	David Hanham, Planning Manager Phone: (510) 724-9842 Email: dhanham@ci.pinole.ca.us	
Project Location:	1500 Fitzgerald Drive, City of Pinole, Contra Costa County, California APN: 426-391-010	
Property Sponsor and Owner(s):	Property Owner Metrovation / ROIC California Chris Cole 732.933.8382 ccole@metrovation.com	Project Applicant Trachtenberg Architects Isaiah Stackhouse, Principal 510.649.1414 www.TrachtenbergArch.com
General Plan Designation:	Service Sub-Area (SSA) (10.1-50 DU/AC)	
Specific Plan Sub-Area:	Service Sub-Area, Appian Way Corridor	
Specific Plan Zoning:	Commercial Mixed-Use (CMU)	
Description of project:	The project consists of demolition of an existing, 91,342 square foot, vacant, commercial building (formerly occupied by K-Mart) and the construction of a new five-story residential building consisting of 263,862 square feet of floor area with 223 residential dwelling units, and associated improvements on a 5.93-acre site within the existing Pinole Vista Shopping Center. The project proposes a 25 percent Density Bonus to increase the allowed number of units to 223 units from 178 units, as permitted by the base density of the site, through the provision of seven percent of the base units affordable at the very low-income level. An additional eight percent of the base units will be provided at the low-income level to satisfy the City's inclusionary ordinance.	
Surrounding land uses and setting; briefly describe the project's surroundings:	The site is surrounded by existing urban uses with commercial uses of the shopping center located to the east and west; motel and commercial uses to the north, across Fitzgerald Drive, and residential uses to the south.	
Other public agencies whose approval is required (e.g. permits, financial, or participation agreements):	N/A	
Have California Native American tribes requested consultation pursuant to Public Resources Code section 21080.3.1?	The City conducted notification within the statutory timeframe provided by Public Resources Code §21080.3.1. Notice was delivered to tribes via email on January 5, 2022. On January 20, 2022, The Confederated Villages of Lisjan requested to enter into consultation and the City provided the Tribe with information requested on the project. The City of Pinole did not receive any other responses requesting further information.	

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1. INTRODUCTION

This California Environmental Quality Act (CEQA) Analysis evaluates environmental impacts from the proposed Pinole Vista Project, which consists of the demolition of existing improvements onsite (91,342 square feet associated with a currently vacant building, formerly occupied by K-Mart), and the development of a new five story residential building consisting of 263,862 square feet of floor area with 223 residential dwelling units, and associated improvements, including parking areas, internal access aisles, outdoor open space, landscaping, lighting, and other ancillary improvements (hereinafter referred to as the "Project"). Documentation herein has been prepared by the City of Pinole as lead agency as defined in Section 15367 of the CEQA Guidelines and in full accordance with the procedural and substantive requirements of CEQA Guidelines. This CEQA Analysis uses streamlining in accordance with CEQA Guidelines 15163 and 15183 for consistency with the General Plan and Three Corridors Specific Plan and the certified Environmental Impact Report (EIR), as well as the CEQA exemption provided by Government Code Section 65457(a), as a residential project consistent with a Specific Plan.

2. PROJECT DESCRIPTION

Regional Setting

The City of Pinole is located in northwestern Contra Costa County along Interstate 80 (I-80), approximately 12 miles south of Vallejo and 17 miles north of Oakland. It is located at the southeastern edges of San Pablo Bay and north of the San Pablo reservoir. The City of Pinole is bordered by the City of Hercules to the north and by the Cities of Richmond and San Pablo to the south (**Figure 1: Regional Location**).

Vicinity Setting

The Project site is located south of Fitzgerald Drive, adjacent to the road. It is approximately 0.09 miles (480 linear feet) south of Interstate 80 (I-80), approximately 0.3 miles west of Appian Way, and is within the Appian Way Corridor of the Three Corridors Specific Plan. The site is surrounded by urban uses, and is located within the existing Pinole Vista Shopping Center, which contains several commercial uses, including the Lucky supermarket, Planet Fitness, retail establishments, commercial services, restaurants, and associated parking. The Project site is located at the western portion of the shopping center. Commercial uses exist to the north of the site across Fitzgerald Drive and to the west; single-family residential development is located to the south (**Figure 2: Vicinity Map**).

The Project site is located within the Service Sub-Area of the Appian Way corridor within the Three Corridors Specific Plan. The Appian Way Corridor is designated as a Priority Development Area (PDA).

Priority Development Areas (PDAs) are places identified by Bay Area communities as areas for investment, new homes, and job growth. PDAs are the foundation for sustainable regional growth as envisioned through Plan Bay Area, the region's Sustainable Community Strategy (SCS). The most recently adopted SCS is the Plan Bay Area 2050 prepared as a joint effort between the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG).[1] Implementation of PDA's enhance mobility and economic growth by linking the location of housing and jobs with transit, thus offering a more efficient land use pattern around transit, reducing greenhouse gas emissions, and realizing a greater return on existing and planned transit investments.

Project Site Setting

The Project site is located within Appian Way corridor of the Three Corridors Specific Plan and is under the Service Sub-Area. The Specific Plan land use designation and zoning of the property is Commercial Mixed Use (CMU) (**Figure 3: Land Use and Zoning**). The purpose of the CMU designation is to provide for vibrant

[1] Final Plan Bay Area 2050 prepared by ABAG/MTC, adopted October 21, 2021.

commercial and mixed-use development. This designation allows for the development of 20.1 - 30.0 dwelling units/acre. Multi-family residential uses are permitted by right within the CMU district.

The Three Corridors Specific Plan indicates that at least 51% of the total floor area in the CMU designation shall be allocated to commercial uses. However, the 51% commercial uses requirement does not apply in this case due to the concession granted by the density bonus.

The Project site is currently developed with an existing “Big Box” building constructed in 1981 along with drive aisles, a parking lot, and limited landscaping. Other commercial buildings associated with the Pinole Vista Shopping Center are located east of the site and commercial uses continue to the west. The existing building on the project site is 91,342 square feet in size, was formerly occupied by K-Mart and is currently vacant. The “Big Box” architecture of the building is typical of commercial shopping centers in California from this time period.

Currently, access to the project site is provided from two drive aisles off of Fitzgerald Drive, located on either side of the existing vacant building. A large parking lot is accessed from the eastern drive aisle. The project site is interconnected with the circulation system of the Pinole Vista Shopping Center, which is accessed via five driveways from Fitzgerald Drive. Shared parking lots serve the Pinole Vista Shopping Center. City standard sidewalks are located along the project site frontage to Fitzgerald Drive along with narrow strips of ornamental plantings of trees and shrubs between the sidewalk and the shopping center development.

The site is generally flat with a gentle slope toward the south. A steep terraced slope is located at the southern portion of the site, which contains coast live oak trees, bishop pines, and other vegetation, and separates the site from the residential development to the south. This area will be furnished with picnic tables under the proposed project and existing trees within the terraced slope will be retained.

A total of 83 trees have been identified on the Project site, of which 36 will require removal to accommodate the proposed development. Eight (8) of the 36 trees proposed for removal are protected trees, as defined in Chapter 17.98 of the Pinole Municipal Code.

As mentioned above, the Project site is located within a Priority Development Area (PDA). PDAs are locally-identified, infill development opportunity areas that are planned to accommodate more housing along with facilities and services to meet the day-to-day needs of residents in a pedestrian-friendly environment served by public transit.[2] The Project site is served by the West Contra Costa Transit Authority (WestCAT), via Route 16 on weekdays, Route JPX on weekday off-peak times, and Route 19 on Saturday, and by Alameda Contra Costa Transit District (AC Transit) Bus Route 70 all day throughout the week and Route 376 at nights throughout the week.

Project Description

The Project proposes the demolition of an existing, 91,342 square foot, vacant, commercial building (formerly occupied by K-Mart) and the construction of a five-story, E-shaped, residential apartment building containing 263,862 square feet of floor area with 223 units, and associated improvements on a 5.93-acre site within the existing Pinole Vista Shopping Center (Project). The Project would also include outdoor open space, including two landscaped courtyards, 5,462 square feet of usable open space to the rear of the property, parking, exterior lighting, internal aisles for circulation, and bio-retention areas **(**Error! Reference source not found.**).** The proposed building will include four residential unit types consisting of 36 studios, 99 one bedroom units, 68 two bedroom units, and 20 units with two bedrooms and an office. Additionally, the apartment building would provide common amenities including a fitness room, lobbies, secure bike storage spaces to accommodate up to 160 bicycles, club rooms, a lounge, and a community room with roof deck.

Vehicular access to the Project site will continue to be provided via the two existing driveways from Fitzgerald Drive. Both existing driveways would provide two-way access under the proposed project. Internal circulation onsite will occur around the perimeter of the building via three (3) rows of drive aisles connected by a drive aisle at the rear of the building. Two drive aisles are proposed to be 27 feet wide and the other will be 29 feet wide.

[2] City of Pinole Three Corridors Specific Plan, Updated June 2020, pg. 1.0-1.

Drive aisles provide access to 275 vehicle parking stalls. The main entry drive is located on the east side of the building and contains a median at its intersection with Fitzgerald Drive that will be landscaped. The main entry to the project site provides access parking onsite and retains through access to the existing parking area and drive aisles east of the site within the Pinole Vista Shopping Center.

Pedestrian access will be accommodated through the installation of onsite walkways extending along the perimeter of the building and within courtyards, and a proposed 4 foot wide pathway connecting to the existing City standard sidewalk along the project site frontage to Fitzgerald Drive. The Project includes installation of a crosswalk across Fitzgerald Drive to the east of the eastern driveway consisting of a ladder striped walkway and lead arrows at both approaches to alert drivers of the pedestrian crossing. The project will retrofit three adjacent bus stops into covered bus shelters.

The Project will include a total of 70,092 square feet in open space for residents, including the front and rear yards, two courtyards, and private patios. The front yard, courtyards, and planter strips in the parking area will include new landscaping, which consist of trees, shrubs, perennials, groundcover, and ornamental grasses. Up to 183 new trees will be planted within landscape areas.

The proposed building architecture will feature flat roofs with windows punctuating the five story facades. Exterior finishes will include stucco on the lower four stories and hardie plank-lap siding in a different color on the fifth floor topped by a metal panel facia. Concrete planters at the ground level will be placed along all building elevations. The building will be 54’-6” tall as measured from grade with the stairs wells to the roof extending 9’-0” above the building roof. Ground floor façades of common amenities such as lobbies, the fitness center, and clubrooms are proposed to have ground to ceiling fenestration, punctuated by an overhang reflective of surrounding commercial mixed use property design.

Density Bonus

The base density of the site allows for 178 units. The proposed project will rely on a Density Bonus that increases the allowed number of units to 223 units. The Project proposes seven percent of the base units for Very-Low-Income households and eight percent of the base units for Low Income households, through the provision of which the project is eligible for a 25 percent density bonus resulting in 45 density bonus units. The Project meets all zoning standards such as height and setbacks and is, therefore, requesting no waivers. The Project is requesting a cost-reduction concession to eliminate the commercial requirement of the Commercial Mixed Use zoning designation.

Construction

For purposes of this analysis, it is assumed that construction activities will occur over an approximately 3-year construction period, from 2022 to 2024. The land development activities including demolition, site preparation, grading, and trenching for utilities would occur between September of 2022 and February of 2023, followed by the vertical construction of the residential building over an 18-month period, and culminating in parking lot paving in the last month of construction between August and September of 2024. Concentrated trucking activity would occur at the beginning and end of the project; during the grading and export operation, the pouring of the foundation, and in the last months while the parking lot is being paved. Construction access routes would be from existing driveways off of Fitzgerald Drive. A construction trailer, construction worker parking area, and the construction staging yard would be located on the project site. Construction activities, start times, end times and deliveries would be within the City’s designated construction hours per municipal code section 15.36.250, between the hours of 7 am to 6 pm Monday through Friday and 8 am to 5 pm on Saturday.

Site preparation would initiate with demolition and removal of the existing building, vegetation, and hardscape surfaces, to accommodate the proposed Pinole Vista residential development and associated improvements (approximately 2,980 tons of pavement and 91,342 square feet of demolished building materials). A total of 36 onsite trees, 8 of which are considered protected by the City of Pinole (Municipal Code, Chapter 19.6) would be removed to accommodate the proposed development. Grading onsite would result in 100 cubic yards of cut and would require 100 cubic yards of fill which may be sourced on-site. As such no net export or import of soils would be required in order to achieve proposed elevations.##

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Following completion of grading activities, infrastructure improvements including trenching for utilities would be completed in advance of pouring the building foundations. The existing driveways and most of the street-adjacent curbs, gutters, and sidewalks are proposed to remain with limited improvements to address grades at the western driveway and enhance pedestrian ramps at the main entry (eastern driveway).

Building construction will involve installation of foundations and vertical elements. As recommended by the geotechnical investigation (**Appendix D**), the building would be supported by a stiffened shallow foundation system – either an interconnected continuous spread footing or mat slab foundation. Stormwater runoff from the building would be captured and treated in a bioretention facility at the front of the property. Stormwater runoff from the parking lots would be captured and treated by bioretention facilities within or adjacent to the parking lots. Stormwater bioretention areas would be constructed after the vertical elements of the project are complete, in conjunction with site landscaping and paving.

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During all stages of construction, the Project will be required to comply with the state water board construction general permit. All stockpiles and landscape materials would be protected by berms with straw wattles or sandbags. Use of temporary silt fence may be used at the site periphery along with other erosion and sediment control measures such as straw wattle check dam. Fiber roll protection would be installed around all drain inlets. A concrete washout area will be located onsite. Precise controls would be established through compliance with regulatory requirements imposed through the construction general permit during construction and an approved project specific stormwater pollution prevention plan, prior to issuance of a grading permit.

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Construction equipment expected to be utilized includes loaders, backhoes, haul trucks, graders, pavers, rollers, cranes, forklifts, and water trucks. All construction material and equipment would be staged on-site or, through issuance of an encroachment permit, on abutting rights-of-way. Temporary lane closures on Fitzgerald Drive are expected to occur during frontage improvements and utility work and will be coordinating through the City Engineer.

Public Outreach

The applicant has held one public outreach event to obtain feedback from the community on July 29, 2021. This event was a virtual meeting with notices mailed to property owners and occupants within a 1,500-foot radius.

Entitlements

The Project applicant has applied to the City of Pinole for the following entitlements:

- Comprehensive Design Review
- Lot Line Adjustment
- Affordable Housing Agreement (per Section 17.32.050 and the Specific Plan)
- Density Bonus
- Tree Removal Permit

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Figure 1: Regional Location

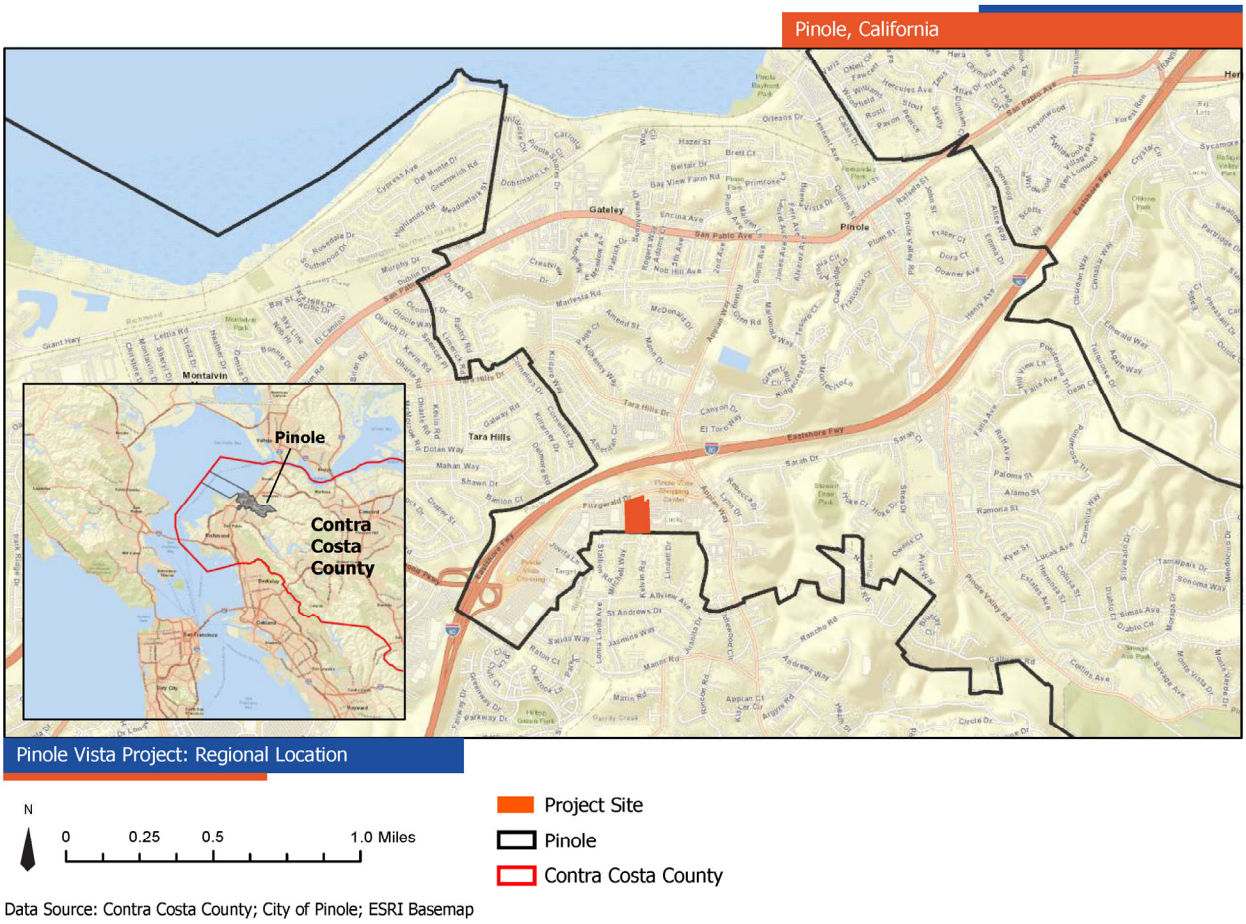
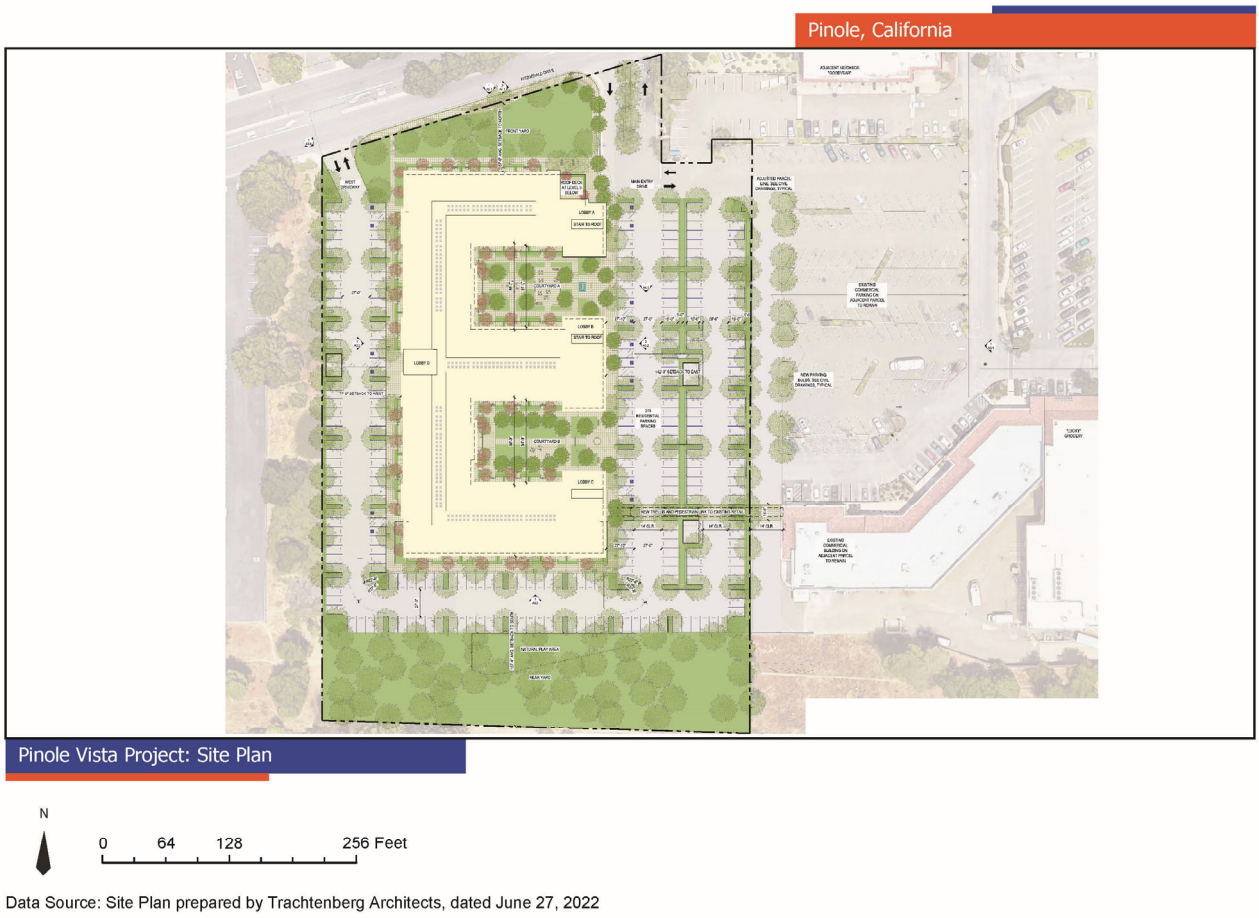


Figure 2: Project Vicinity

Data Source: City of Pinole, Google Maps, ESRI Basemaps

Figure 3: Land Use and Zoning Map

Figure 4: Site Plan



Data Source: Site Plan prepared by Trachtenberg Architects, dated June 27, 2022

3. APPLICABLE CEQA PROVISIONS AND FINDINGS

The following discussion presents the relevant provisions of CEQA to which the proposed Pinole Vista Project complies. It provides an overview of the Community Plan Exemption, determination of consistency with the City's program level EIR for the General Plan and Specific Plan, and the 2010 FEIR. A description of how the Pinole Vista Project complies with each provision is presented below. Finally, this section concludes with the CEQA finding and determination that the project is exempt from further environmental review.

3.1. GENERAL PLAN, SPECIFIC PLAN, AND EIR

The City of Pinole General Plan serves as the document that guides future development citywide that expresses the community's development goals and public policies relative to land uses. The update of the General Plan was adopted in 2010. The Three Corridors Specific Plan was developed concurrently with the General Plan update to guide development in defined sub-areas of the General Plan to focus development on unique characteristics of these areas. The purpose of the Specific Plan is to focus revitalization along the three corridors: San Pablo Avenue, Pinole Valley Road, and Appian Way.

The General Plan EIR (2010 FEIR) assesses potentially significant environmental impacts associated with implementation of the General Plan and the Three Corridors Specific Plan. The 2010 FEIR provides the public, responsible agencies, and decision makers with information about the probable environmental effects of adoption and implementation of the General Plan Update, Three Corridors Specific Plan, and associated Zoning Code Updates. The 2010 FEIR serves as a programmatic document that is intended to be used to evaluate subsequent projects and activities within the planning area. The findings of the 2010 FEIR are presented below in Section 4 for each environmental category.

3.2. CONSISTENCY WITH PROGRAM EIR (CEQA GUIDELINES SECTION 15168)

The City of Pinole certified a program level EIR, the 2010 FEIR, which includes an analysis of the development potential anticipated by land use designation, policies and programs contained in the General Plan and the Three Corridors Specific Plan. The 2010 FEIR provides for streamlining and/or tiering opportunities under CEQA Guidelines Section 15168. CEQA Guidelines 15168(c) states that "later activities in the program must be examined in the light of the program EIR to determine whether an additional environmental document must be prepared."

APPLICABILITY OF THE PROJECT TO 15168

The proposed Pinole Vista Project is a "later activity" of the program EIR. Section 4 of this CEQA Analysis provides an assessment of the Project's environmental impacts relative to what was analyzed in the 2010 FEIR. As described in Section 4, the Project does not result in environmental effects that were not previously examined. As such, pursuant to CEQA Guidelines Section 15162 and 15163, no subsequent or supplemental EIR is required. In accordance with CEQA Guidelines Section 15168(c)(2), the City can "approve the activity as being within the scope of the project covered by the program EIR, and no new environmental document would be required."

CEQA Guidelines 15168(c)(3) provide that "an agency shall incorporate all feasible mitigation measures and alternatives developed in the program EIR into later activities in the program." Section 6 of this CEQA analysis identifies the relevant environmental conditions of approval that will be required of the proposed Project to demonstrate compliance with mitigation measures set forth in the program level EIR, and policies, programs and goals of the Three Corridors Specific Plan and General Plan.

As described below in Section 4, for each environmental resource topic in the Environmental Checklist, with implementation of mitigation measures, the proposed project would not result in significant impacts beyond those analyzed in the program level EIR. In addition, the project is subject to the payment of Development Impact Fees, which are collected to offset the incremental increase in demands for public services and infrastructure from implementation of the General Plan and Specific Plan.

3.3. GENERAL PLAN/COMMUNITY PLAN EXEMPTION (CEQA GUIDELINES SECTION 15183)

California Public Resources Code Section 21083.3 and CEQA Guidelines Section 15183 allows a streamlined environmental review process for projects that are consistent with the densities established by existing zoning, community plan, or general plan policies for which an EIR was certified.

Section 15183 (a) "mandates that projects which are consistent with the development density established by existing zoning, community plan, or general plan policies for which an EIR was certified shall not require additional environmental review, except as might be necessary to examine whether there are project-specific significant effects which are peculiar to the project or its site. This streamlines the review of such projects and reduces the need to prepare repetitive environmental studies."

Section 15183(b) specifies that "in approving a project meeting the requirements of Section 15183, a public agency shall limit its examination of environmental effects to those which the agency determines, in an initial study or other analysis:

1) Are peculiar to the project or the parcel on which the project would be located;
2) Were not analyzed as significant effects in a prior EIR on the zoning action, general plan, or community plan, with which the project is consistent;
3) Are potentially significant off-site impacts and cumulative impacts which were not discussed in the prior EIR prepared for the general plan, community plan or zoning action; or
4) Are previously identified significant effects which, as a result of substantial new information which was not known at the time the EIR was certified, are determined to have a more severe adverse impact than discussed in the prior EIR."

Section 15183(c) specifies that if an impact is not peculiar to the parcel or to the project, has been addressed as a significant effect in the prior EIR, or can be substantially mitigated by the imposition of uniformly applied development policies or standards, then an additional EIR need not be prepared for the project solely on the basis of that impact.

Section 15183(d) further states that the streamlining provisions of this section "shall apply only to projects that meet the following conditions:

(1) the project is consistent with a community plan adopted as part of a general plan, a zoning action which zoned or designated the parcel on which the project would be located to accommodate a particular density of development, or a general plan of a local agency; and

(2) an EIR was certified by the lead agency for the zoning action, the community plan, or the general plan."

APPLICABILITY OF THE PROJECT TO 15183

The proposed Pinole Vista Project is consistent with the General Plan land use designation and zoning for the site, as outlined below, and meets the streamlining provisions under CEQA Guidelines Section 15183(d)(1):

(d)(1)(A) The project is consistent with a community plan adopted as part of a general plan.

The City of Pinole General Plan and Three Corridors Specific Plan were approved and the EIR (SCH Number 2009022057) was certified on October 20, 2010, by Resolution Number 2010-88. The Project is located on a site with the Commercial Mixed-Use (CMU) designation within the Service Subarea (SSA) in the Appian Way Corridor. The Service Sub-Area serves as the gateway to the Specific Plan Area. The Specific Plan intends for the Service Sub-Area to capitalize on its reputation as a regional shopping center and continue to serve as a local service center to provide services to residents of Pinole and neighboring communities while creating the potential for future housing opportunity through mixed use development with a variety of housing densities.

The Project is not required to provide 51% square footage for commercial uses because the elimination of the commercial requirement is a concession, pursuant to state density bonus law, to allow for actual and identifiable cost reductions. In that the Project relies upon the density bonus provision in state law to deviate from the community benefits requirement, by providing a portion the units at the low and very low affordability level, the Project is consistent with the Specific Plan sub-area and zoning designation, even though it does not include a commercial component.

The proposed Pinole Vista Project is consistent with the following Three Corridors Specific Plan land use policies related to the Appian Way Corridor:

- Land Use Policy 1. Provide for a variety of housing types throughout the plan areas.
- Land Use Policy 3. Provide affordable housing within the plan areas consistent with the City's General Plan.
- Land Use Policy 6. Actively promote the "revitalization" of underutilized land.

(d)(1)(B) The project is consistent with a zoning action which zoned or designated the parcel on which the project would be located to accommodate a particular density of development.

The Project is subject to and consistent with the applicable development standards and zoning requirements within the Three Corridors Specific Plan and the Pinole zoning code (Title 17 of the Pinole Municipal Code). Where there is a conflict between the Specific Plan and the zoning code, the Specific Plan takes precedence.

The General Plan and Specific Plan have assumed a total maximum development potential of 1,076 net dwelling units within the Specific Plan area, of which 633 net units are within the Appian Way Corridor. In April of 2022, the Planning Commission approved a residential development application for 2151 Appian Way, which provides for the development of 154 residential units. The Appian Way Corridor has not otherwise experienced significant new housing development since certification of the 2010 FEIR.

The Pinole Vista Project is located on a site designated as Commercial Mixed Use (CMU). In this zone, the housing density is noted as 20.1 to 35.0 dwelling units per acre in the Specific Plan. The Project proposes a housing density of 37.61 dwelling units per acre (223 units over 5.93 acres). The Project is eligible for a by-right increase in the density above what is allowed in the CMU zone through the State density bonus provisions (Government Code Section 65915), which provides for a 25% density bonus over the base density of 30% (178 units). The Project applies the 25% density bonus (30 units) to increase the number of allowable units from 178 units to 223 units.

Through the provision of the Sate density bonus law (Government Code Section 65915), the Project is eligible for certain incentives/concessions and waivers of development standards. The State density bonus law allows for one incentive/concession for a project that provides 7% of the base units for Very Low Income (VLI) households (GC Section 65915(d)(C)(2)(A)). The concession requested by the applicant is to eliminate the CMU requirement that 51% of the site be developed with commercial uses, and instead allow for a 100% residential development. Therefore, the Project is consistent with the projected development under the General Plan and Specific Plan and the provisions of the State density bonus law.

(d)(1)(C) The project is consistent with the City of Pinole General Plan.

The Project site is designated Service Sub-Area (SSA) on the City's General Plan Land Use map. The SSA is intended to maintain and enhance existing land uses while providing land use flexibility and incentives to encourage new private investment and development. Multi-family residential use is identified as a permitted use in the SSA. The Project, which proposes a density of 37.61 dwelling units per acre is consistent with the General Plan in that it provides the development of apartments in a location designated for densities in the range of 10.1 to 50.0 dwelling units per acre, in the General Plan. The proposed development is consistent with projected development in the City of Pinole General Plan and 2010 FEIR, which assumed approximately 1,306 additional housing units (approximately 1,076 of which would be accommodated within the Specific Plan area).

The proposed Project is consistent with the following General Plan policies:

- Policy LU.1.1. Increase land use diversity along the San Pablo Avenue, Pinole Valley Road and Appian Way corridors; reduce residential density on large land holdings designated for Rural land use; and maintain other land use designations for a variety of residential, commercial, light industrial, recreational, open space and public purposes which (1) protect environmental resources; (2) provide a mix of housing types, densities and tenure; (3) ensure that a variety of commercial and industrial goods, services and employment opportunities are available; and (4) offer a range of recreational and public facilities to meet the needs of residents.

- Policy LU.4.3. Cluster development at higher densities to protect natural resources and address site development constraint issues, including archaeological sites, access, traffic, emergency services, water and sewer availability, creek and tree protection, steep slopes, potential geologic hazards, grading impacts, view protection and protection of open space resources.

- Policy LU.7.3. Continue to strive for a balance between the number of jobs in the Pinole Planning Area and the number of housing units available for workers by encouraging and supporting policies and programs, mixed-use projects which provide both housing and employment opportunities, and the development of affordable housing.

- Policy H.4.1. Provide a choice of housing. Provide a mix of sizes and housing types to meet the needs of Pinole's diverse population. Specific examples include traditional single-family homes, second units, mixed use developments, infill development, accessible housing, and transitional and emergency housing. Opportunities must be available for lower, moderate, and above-moderate income households reflecting available job opportunities in close proximity to Pinole. Available housing choices should also strive to minimize transportation needs.

- Policy H.4.2. Provide equal housing opportunities. Encourage the provision of adequate housing for all persons regardless of income, age, sex, race, or ethnic background, consistent with the Fair Housing Act.

- Policy H.4.4. Support the development of affordable housing. Maintain appropriate land use regulations and other development tools to encourage development of affordable housing opportunities throughout the City.

3.4. CONSISTENCY WITH THREE CORRIDORS SPECIFIC PLAN (SECTION 65457)

California Government Code Section 65457(a) provides an exemption from further environmental review for residential development projects that are consistent with a Specific Plan for which an EIR was certified after January 1, 1980. This exemption does not apply if any of the events identified in Section 21166 of Public Resources Code have occurred, unless a supplemental EIR is prepared.

APPLICABILITY OF THE PROJECT TO 65457(a)

As described above, the Pinole Vista Project is consistent with the Specific Plan for which an EIR was certified in 2010, with concessions as granted under State Density Bonus Law. As presented herein, the 2010 FEIR remains relevant and none of the events identified in Section 21166 of the California Public Resources Code have occurred that require preparation of a supplemental EIR. Therefore, the Project is exempt pursuant to California Government Code Section 65457(a).

(a) Substantial changes are proposed in the project which will require major revisions of the environmental impact report.

The proposed Project is consistent with the development intensity analyzed in the 2010 FEIR. There are no substantial changes to the project that require major revisions of the 2010 FEIR.

(b) Substantial changes occur with respect to the circumstances under which the project is being undertaken which will require major revisions in the environmental impact report.

Development within the Three Corridors Specific Plan area has built out in a manner consistent with what was analyzed in the 2010 FEIR including planned development, redevelopment, infrastructure, and transportation improvements. There are no substantial changes to the circumstances under which the project is being undertaken that require major revisions of the 2010 FEIR.

(c) New information, which was not known and could not have been known at the time the environmental impact report was certified as complete, becomes available.

There is no new information that would substantially alter the conclusions of the 2010 FEIR. The analysis of the 2010 FEIR remains applicable to the Pinole Vista Project.

3.5. CEQA DETERMINATION AND SUMMARY OF FINDINGS

As summarized above and presented herein, the proposed Pinole Vista Project is eligible for the following CEQA exemptions:

Consistency with Program EIR. The City of Pinole 2010 FEIR provides for streamlining and/or tiering provisions under CEQA Guidelines Section 15168. This CEQA Analysis demonstrates that the Project would not result in substantial changes or involve new information that would warrant preparation of a subsequent EIR because the level of development proposed is within the development assumptions analyzed in the program level EIR (2010 FEIR). No further environmental review is required.

Community Plan Exemption. Streamlined environmental review per Section 15183 of the CEQA Guidelines and California Public Resources Code Section 21083.3. The Project is consistent with the General Plan and will not result in significant environmental impacts that were not previously identified as significant project-level, cumulative or offsite effects in the 2010 FEIR. The Project is exempt from further CEQA review, since it is consistent with the General Plan.

Specific Plan Consistency 65457(a). Pursuant to Government Code Section 65457(a), once an EIR has been certified and a Specific Plan adopted, any residential development project, that is undertaken to implement and is consistent with the Specific Plan, is exempt from additional CEQA review. The Project is consistent with the adopted Three Corridors Specific Plan for which an EIR was certified in 2010 and qualifies for this exemption.

Findings Summary

As described herein, the proposed Project is within the scope of development projected under the General Plan and Three Corridors Specific Plan, for which an EIR was certified in 2010. The proposed Pinole Vista Project will implement applicable mitigation measures identified in the 2010 FEIR. In addition, the Project would be required to comply with applicable conditions of approval and subject to uniformly applied development standards. With implementation of required mitigation measures and conditions of approval, the Project would not result in a substantial increase in the severity or significant impacts that were previously identified in the program level EIRs, nor would the Project introduce any new significant impacts that were not previously identified. Therefore, there would be no additional environmental impacts beyond those analyzed in the 2010 FEIR.

Each of the above findings provides for a separate and independent basis for CEQA compliance. We do hereby certify that the above determination has been made pursuant to State and Local requirements.

_____ _____

Signature: City of Pinole **Date**

3.6. ENVIRONMENTAL CONDITIONS OF APPROVAL

The Project shall incorporate all feasible mitigation measures set forth in findings of fact for prior applicable Environmental Impact Reports (EIR). The following EIRs have been determined by the City to be applicable to the Project:

- City of Pinole General Plan EIR (SCH Number 2009022057)

In each impact section of the Evaluation of Environmental Impacts, applicable mitigation measures from the findings of fact for the certified EIR are identified. Section 6 of this CEQA Analysis identifies relevant conditions of approval for the Project derived from mitigation measures, policies and implementing programs established in the City's General Plan and Three Corridors Specific Plan and the certified 2010 FEIR.

The Pinole Vista Project applicant has reviewed all conditions of approval and as signed below is committed to implementing all environmental conditionals of approval as part of the Project.

_____ _____

Signature: Project Applicant **Date**

4. EVALUATION OF ENVIRONMENTAL EFFECTS

This section examines the Project's potential environmental effects within the parameters outlined in CEQA Guidelines Section 15183(b). The "Prior EIRs" (as defined in CEQA Guidelines Section 15183(b)(3)) is the City of Pinole General Plan EIR (2010 FEIR), inclusive of all impact determinations, significance thresholds and mitigation measures identified therein.

Th evaluation builds from the Appendix G Environmental Checklist and has been modified to reflect the parameters outlined in CEQA Guidelines Section 15183(b). The checkboxes in the evaluation below indicate whether the proposed project would result in environmental impacts, as follows:

- **New Significant Impact –** The proposed Project would result in a new significant impact that was not previously identified in the 2010 FEIR.
- **Substantial Increase in Severity of Previously Identified Significant Impact in GP EIR –** The proposed Project's specific impact would be substantially greater than the specific impact described in the 2010 FEIR.
- **Substantial Change Relative to GP EIR –** The proposed Project would involve a substantial change from analysis conducted in the 2010 FEIR.
- **Equal or Less Severity of Impact than Previously Identified in GP EIR –** The severity of the specific impact of the proposed Project would be the same as or less than the severity of the specific impact described in the 2010 FEIR.

Where the severity of the impacts of the proposed Project would be the same as or less than the severity of the impacts described in the 2010 FEIR, the checkbox for Equal or Less Severity of Impact Previously Identified in FEIR is checked. Where the checkbox for Substantial Increase in Severity of Previously Identified Significant Impact in FEIR or New Significant Impact is checked, there are significant impacts that are:

- Peculiar to project or project site (CEQA Guidelines Section 15183[b][3]);
- Not analyzed as significant impacts in the previous EIRs, including off-site and cumulative impacts (CEQA Guidelines Section 15183[b][2]);
- Due to substantial changes in the project (CEQA Guidelines Section 15162[a][1]);
- Due to substantial changes in circumstances under which the project will be undertaken (CEQA Guidelines Section 15162[a][2]); or
- Due to substantial new information not known at the time the EIRs were certified (CEQA Guidelines Sections 15162[a][3] and 15183[b][4]).

As described herein, the proposed Project will be required to comply with all applicable mitigation measures identified in the 2010 FEIR.

This evaluation hereby incorporates by reference the 2010 FEIR discussion and analysis of all environmental topics. The 2010 FEIR significance thresholds have been consolidated and abbreviated in this Checklist; a complete list of the significance thresholds can be found in the 2010 FEIR.

The 2010 FEIR is a program level documents that consider the combined effects of implementing several related projects. As such, the analyses presented in the 2010 FEIR represents a cumulative analysis of environmental impacts that may occur from buildout of the Specific Plan and the General Plan.

4.1. AESTHETICS

Except as provided in Public Resources Code Section 21099, would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

Sources: City of Pinole General Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to aesthetics in Chapter 4.11 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.11.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would encourage new development and redevelopment activities that could potentially degrade existing scenic vistas. This impact is considered less than significant.

- Impact 4.11.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in the alteration of visual character. This is considered a less than significant impact.

- Impact 4.11.3- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in the intensification of land uses within the GPU Planning Area, which has the potential to create new sources of daytime glare and nighttime illumination. This impact is considered a less than significant.

- Impact 4.11.4- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), along with foreseeable development in the region, would not result in the significant conversion of the city's visual character. This is considered a less than cumulatively considerable impact.

The 2010 FEIR determined that implementation would result in less than significant impacts regarding degradation of existing scenic vistas, alteration of visual character, and light and glare. No mitigation measures were required for the determination of less than significant impacts.

Project Consistency with the 2010 FEIR

4.1(a) (Scenic Vistas) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that there are no designated scenic vistas within the city. Although the City contains scenic views of the San Pablo Bay and the surrounding cities that can be seen from the City's ridgelines, these views were not considered scenic vistas and the 2010 FEIR determined impacts to scenic vistas as less than significant.

The Pinole Vista Project will introduce a new five story building on a site surrounded by established urban development and currently occupied by a big box store, formerly occupied by K-Mart, and large parking lots. Given the site location within an urbanized area with no scenic vistas, the proposed project will result in no changes to impacts relative to the 2010 FEIR.

Although 36 trees are proposed to be removed from the project site, up to 183 new trees will be introduced, for a net increase of 154 trees. New trees and landscaping will provide a visual screening and softening to the existing condition, which is dominated by big box retail buildings and expansive hardscape parking lots. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.1(b) (Scenic Highways) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that there are no officially designated state scenic highways or highways eligible for a designation by the California Department of Transportation Scenic Highways Program within the City. Accordingly, the Project will have no impact on scenic resources within a state scenic highway.

4.1(c) (Scenic Quality) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that implementation of the General Plan and Specific Plan could result in alteration to the visual setting and those impacts would be less than significant. The Project is consistent with the intent of the General Plan to promote infill development in the primary transportation corridors, as it is located within the Appian Way Corridor and within a Priority Development Area.

The 2010 FEIR indicated that development consistent with the Zoning Code and General Plan policies would protect the visual character of the City. The Project is compatible with General Plan Policy CC.1.1 in that the Project exhibits pedestrian orientation, and interconnectivity of circulation via the provision of sidewalks throughout the development that connect to the sidewalks along Fitzgerald Drive and also provides a connection to the businesses in the Pinole Vista Shopping Center. The Project is also subject to the City's Design Review process and evaluation relative to the quality of site design, architecture, and planning. The Project has been evaluated by the City for these elements and found to be consistent with the applicable Design Guidelines as follows:

- The site design is pedestrian-oriented providing sidewalks around the entire periphery of the proposed building and at the site frontage.
- The proposed building incorporates entryways via courtyards and four-sided architecture with eyes towards the site margins and access aisles.
- The new building maintains the same back and development footprint as the existing building to be demolished.
- The Project retains the existing access driveways off of Fitzgerald Drive.
- The proposed architecture exhibits a defined style and is expressed on all elevations of the building.
- The building exhibit varied and well-articulated wall planes, rooflines, and building form.
- Architectural details include fenestration, recessed planes, and maximizes windows facing access driveways, Fitzgerald Drive, and the internal courtyards.

The 2010 FEIR identified significant existing visual features as historic buildings, structures, landmarks, and monuments. The Project includes demolition of the existing, vacant building on site. This "big box" building was constructed in 1981 along with multiple other commercial buildings associated with the Pinole Vista Shopping Center. Based on analysis incorporated in the Archeological Survey Report (**Appendix C**) prepared for the

project, the existing building on the Project site is not a historic resource. Therefore, demolition of the existing building will not be detrimental to the scenic quality due to removal of a significant visual feature.

The proposed Project is consistent with the intent of the General Plan and Three Corridors Specific Plan by introducing high density residential development on an underused site within the Priority Development Area of Appian Way. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.1(d) (Lighting and Glare) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that intensification of land uses may create new sources of light and glare. Application of lighting rules and regulations, including the Zoning Code, was identified as a means to minimize impacts. The proposed lighting would be in conformance with the City's Zoning Code as a standard condition of Design Review approval, including Chapter 17.46, which governs installation and operation of lighting fixtures. Among the standards for lighting is the requirement for full downward shielding in order to reduce light and glare impacts to adjoining properties and public rights-of-way. Compliance with lighting standards, in accordance with Action CC.2.3.4, has been imposed under environmental condition of approval AES-1. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion and Environmental Conditions of Approval

The Project would not result in any substantial new or more severe impacts to aesthetics relative to what was identified in the 2010 FEIR. The Project would be required to comply with City of Pinole regulations that implement General Plan policies, including Zoning Code standards captured in the following environmental condition of approval:

AES-1: The applicant shall ensure, and the City shall verify that the final lighting plan incorporates applicable requirements set forth in Chapter 17.46 of the Pinole Municipal Code, including that all outdoor lighting fixtures be designed, shielded, aimed, located, and maintained to shield adjacent properties and to not provide glare onto adjacent properties or roadways.

4.2. AGRICULTURAL AND FORESTRY RESOURCES

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; and California Department of Conservation Farmland Mapping and Monitoring.

General Plan and Specific Plan EIR Findings

The 2010 FEIR determined under Chapter 1.7 that implementation of the General Plan/Specific Plan would not result in any potentially significant impacts to agricultural land because the city has been largely built out and does not have agricultural operations. Similarly, the City of Pinole lacks forestland and timberland production.

Project Consistency with the 2010 FEIR

4.2(a-e) (Farmland, Agricultural Land, Forest Land) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that buildout will not impact agricultural land. The Project site is a developed site with an existing building, paved access, and parking area. It does not contain farmland or forest land pursuant to Section 12220(g) of the Public Resources Code. As the Project is within the scope of development projected under the General Plan/Specific Plan and the 2010 FEIR, and located on a site designated to support residential uses, there would be no impact to farmland, agricultural land or forestland. Therefore, relative to the 2010 FEIR there would be no changes in impacts due to the proposed project.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion

The Project would not result in any new or more severe impacts to agricultural and forestry resources relative to what was identified in the 2010 FEIR. The Project consists of development within an urban context that would not impact agricultural or forestland resources and is consistent with the City's General Plan and Three Corridors Specific Plan.

4.3. AIR QUALITY

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Exposure of sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; BAAQMD 2017 Bay Area Clean Air Plan; BAAQMD CEQA Guidelines May 2017; BAAQMD Recommended Methods for Screening and Modeling Local Risks and Hazards, prepared by the BAAQMD, May 2011; and Air Quality and Greenhouse Gas Assessment, prepared by Illingworth & Rodkin, Inc., October 25, 2021.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to air quality in Chapter 4.3 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.3.1- Subsequent land use activities associated with implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in increased population and vehicle miles traveled that would exceed assumptions used to create the BAAQMD's Clean Air Plan. Although the GP EIR identified policies that would help reduce the effect of impacts, the impact would be significant and unavoidable, and there are no available mitigation measures. Resolution 2010-88 adopted a statement of overriding consideration for this significant and unavoidable impact citing a sustainability benefit with the following rationale: "Locating residential projects along commercial corridors allows for greater access to commerce, employment opportunities, and transit which reduces vehicle trips and increases the sustainability of the community."

- Impact 4.3.2- Subsequent land use activities associated with implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in short-term construction emissions that could violate or substantially contribute to violations of federal and state ambient air quality standards. Implementation of mitigation measure 4.3.2, requiring the use of BAAQMD best management practices for construction emissions, would reduce impacts to less than significant.

- Impact 4.3.3- Subsequent land use activities associated with implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in long-term, operational emissions that could violate or substantially contribute to violations of federal and state ambient air quality standards. Impacts were determined to be significant and unavoidable, and there are no available mitigation measures. A statement of overriding consideration was adopted with certification of the 2010 FEIR by resolution 2010-88 citing a sustainability benefit.

- Impact 4.3.4- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in increased population and employment that would result in level of service operations that would be inconsistent with the region's congestion management Program. Implementation of mitigation measure 4.4.2, for the City to work with county transportation agencies, would reduce impacts to less than significant impacts. The Project is consistent with development assumptions within the General Plan and results in no new significant or more severe impact relative to the 2010 FEIR.

- Impact 4.3.5- Subsequent land use activities associated with implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in projects that would include sources of toxic air contaminants which could affect surrounding land use. Subsequent land use activities could also place sensitive land uses near existing sources of toxic air contaminants. These factors could result in the exposure of sensitive receptors to substantial concentrations of toxic air contaminants and/or fine particulate matter. General Plan policies that would reduce impacts include Policy SE.7.1, SE.7.9 and LU.3.3. Impacts were determined to be significant and unavoidable, and there are no available mitigation measures. A statement of overriding consideration was adopted with certification of the 2010 FEIR by resolution 2010-88 citing a sustainability benefit.

- Impact 4.3.6- Subsequent land use activities associated with implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could include sources that could create objectionable odors affecting a substantial number of people or expose new residents to existing sources of odor. Mitigation measure 4.3.6a and 4.3.6b, which includes compliance with BAAQMD best management practices, would reduce impacts to less than significant.

- Impact 4.3.7- The General Plan EIR determined that implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), in combination with cumulative development in the SFBAAB, would result in a cumulatively considerable net increase of ozone and coarse and fine particulate matter. Impacts were determined to be cumulatively considerable, and there are no available mitigation measures. A statement of overriding consideration was adopted with certification of the 2010 FEIR.

Implementation of the General Plan and Specific Plan would result in potentially significant air quality impacts. Mitigation measures from the 2010 FEIR would reduce the effect of impacts, however not all impacts may be reduced to less than significant levels. A statement of overriding consideration was adopted with certification of the 2010 FEIR.

Project Consistency with the 2010 FEIR

4.3(a) (Conflict with Plan) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR found that build out of the General Plan would result in significant and unavoidable impacts on air quality, and a statement of overriding considerations was adopted. The General Plan determined that impacts resulting from the increased population and vehicle miles traveled would exceed assumptions used to create the 2010 BAAQMD Clean Air Plan. As it relates to the General Plan and Specific Plan, the development proposed by the Pinole Vista Project is within the development projections of the 2010 FEIR and would not create new impacts, more significant impacts, or a substantial change from the 2010 FEIR.

In the 2017 BAAQMD CEQA Air Quality Guidelines, the BAAQMD established thresholds of significance for construction and operation for emission levels that may be considered potentially significant impacts. Project-specific analysis of air pollutant emissions, (**Appendix A**), quantifies emission from short-term construction-related activities (e.g., construction equipment emissions, soil disturbance, transport of materials and worker trips) and long-term operations (e.g., resident and visitor vehicle use and area sources from use of natural gas, consumer products, and landscaping maintenance equipment). Air quality emissions generated by the Project would not exceed BAAQMD significance thresholds during construction or at operation, as shown in Tables AQ-1 and AQ-2 below.

Table AQ-1. Construction Period Emissions

Year	Annualized Daily Construction Emission (pounds/day)			
	ROG (Reactive Organic Gases)	NO_X (Nitrogen Oxides)	PM10 (particulate matter- 10 microns) (Exhaust)	PM2.5 (particulate matter-2.5 microns) (Exhaust)
2022	1.00	5.47	0.30	0.21
2023	9.53	2.55	0.18	0.10
2024	8.71	2.21	0.17	0.08
BAAQMD Thresholds (pounds/day)?	54	54	82	54
Exceed Threshold	No	No	No	No

Sources: 2017 BAAQMD CEQA Air Quality Guidelines, Air Quality and Greenhouse Gas Analysis for the 1500 Fitzgerald Drive Project.

Table AQ-2. Operational Emissions

Scenario	Pollutant			
	ROG (Reactive Organic Gases	NO_X (Nitrogen Oxides)	PM10 (particulate matter-10 microns) (Exhaust)	PM2.5 (particulate matter-2.5 microns) (Exhaust)
2025 Project Operational Emissions (pounds/day)	11.30	3.56	5.09	1.37
2025 Reuse Site Operational Emissions (pounds/day)	8.99	3.89	5.53	1.42
BAAQMD Thresholds (pounds/day)	54	54	83	54
Exceeds Thresholds?	No	No	No	No

Sources: 2017 BAAQMD CEQA Air Quality Guidelines, Air Quality and Greenhouse Gas Analysis for the 1500 Fitzgerald Drive Project.

There would be temporary generation of fugitive dust in the form of PM10 and PM2.5 during construction activities, particularly during site preparation and grading. BAAQMD does not have a quantitative threshold of significance for fugitive dust. However, the 2017 BAAQMD CEQA Guidelines provide recommendations for best management practices to reduce emissions, including fugitive dust. Mitigation measure 4.3.2, set forth in the 2010 FEIR requires the use of BAAQMD-approved basic construction mitigation measures. The 2010 FEIR concluded that impacts from construction would be less than significant with implementation of mitigations. Best management practices from the latest BAAQMD CEQA Air Quality Guidelines are required to be implemented by the Project as imposed by condition of approval (COA) AQ-1, consistent with mitigation measure 4.3.2. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.3(b) (Increase Criteria Pollutants) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR identified a cumulatively considerable impact from the net increase of criteria pollutants citywide from buildout of the General Plan, and a statement of overriding considerations was adopted. The Project is consistent with the projected buildout of the General Plan. At the project-level, analysis of criteria pollutant emissions from development of the project, as described above in 4.3(a), determine that the Project would not exceed criteria pollutant thresholds during construction or at operation and impacts would be less than significant. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.3.(c) (Sensitive Receptors) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined impacts to sensitive receptors would be significant and unavoidable, and a statement of overriding consideration

was adopted. At the project-level, construction activities would result in short term emissions that could potentially impact nearby sensitive receptors including surrounded residential uses. During construction, onsite activities will result in airborne particles from site disturbance and construction equipment emissions (i.e., diesel particulate matter exhaust emissions from vehicles and heavy equipment operations). Health risks from diesel-exhaust emissions are connected to long-term exposure and the associated carcinogenic risk. For toxic air contaminants (TACs) and effects on sensitive groups, health risks are based on a 30-year exposure period in accordance with the Office of Environmental Health Hazard Assessment.

Based on the Air Quality Analysis conducted for the Project (**Appendix A**), it can be concluded that the Project's construction activities would not result in significant impacts with respect to health risks to sensitive receptors because they would not exceed the BAAQMD single or cumulative source thresholds. Additionally, implementation of the best management practices during construction (in accordance with mitigation measure 4.3.2) as specified in condition of approval (COA) AQ-1 would ensure that emissions are minimized.

The BAAQMD threshold for any single source of TACs is 10 in one million total cancer risk, 0.3 μg/m^3 for annual $PM_{2.5}$ and 1.0 for the hazard index. The analysis found that during construction the maximally exposed individual (infant) would experience a cancer risk of 1.65, an annual $PM_{2.5}$ of 0.01 μg/m^3, and a hazard index of <0.01, which is below the single source thresholds. As such, impacts from the Project construction activities would result in less than significant health risk to surrounding sensitive receptors.

The BAAQMD threshold for cumulative sources is 100 in one million total cancer risk, 0.8 μg/m^3 for annual $PM_{2.5}$ and 10.0 for the hazard index. The analysis found that including construction and other existing cumulative sources in the site vicinity (I-80, Fitzgerald Drive, Gas Station, and Generators), the maximally exposed individual (infant) would experience a cumulative cancer risk of 6.46, a cumulative annual $PM_{2.5}$ of 0.12 μg/m^3, and a cumulative hazard index of <0.04, which is below the cumulative source thresholds. As such, impacts from the Project construction activities, combined with other existing emitters in the vicinity would result in less than significant health risk to surrounding sensitive receptors. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

At operation, the Project would introduce new sensitive receptors (residents) to the area which contains several sources of TACs, namely vehicle traffic on Interstate 80 and Fitzgerald Drive, backup generators at the Target store and the West County Wastewater District, and at over 1000 feet away a 7-Eleven gas station. The Health Risk Analysis found that new residents introduced to the project site would experience the greatest single source from I-80 including a cancer risk of 6.35, an annual $PM_{2.5}$ of 0.23 μg/m^3, and a hazard index of <0.01, which is below the single source thresholds. New residents would experience a cumulative cancer risk of 9.65, a cumulative annual $PM_{2.5}$ of 0.44 μg/m^3, and a cumulative hazard index of <0.03, which is below the cumulative source thresholds. The health risks from the existing TAC sources upon the Project site would not exceed the BAAQMD single source or cumulative thresholds, and therefore new residents would not be exposed to excessive ambient air quality emissions and there would be no conflicts to public health and safety from project implementation.

4.3(d) (Odors) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts due to odors would be potentially significant and specified mitigation measure 4.3.6b to reduce such impacts to a less than significant level.

As a residential development, the Project does not involve operations that may generate substantial odors, such as manufacturing, refineries, landfills, or treatment uses. During construction, odors may be emitted from construction equipment and vehicles, but would be minimized through best management practices and impacts would be less than significant. As such the Project would not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Furthermore, the project would not result in a potential conflict due to introducing a residential use in an area with substantial ambient odors. Major sources of potential odors include wastewater treatment plants, wastewater pumping facilities, sanitary landfills, transfer stations, composting facilities, petroleum refineries, asphalt batch plants, chemical and fiberglass manufacturing, painting/coating operations, food processing facilities, and green waste and recycling operations. The Pinole/Hercules Water Pollution Control Plant is

located approximately two miles away and ambient odors are not detectable at the Project site. The 2010 FEIR identified that automotive body repair shops may be an additional source of odor within the city. A tire repair facility is located within the Pinole Vista Shopping Center approximately 250 feet from the Project, but the business does not offer auto body repair as a service.

The Project is located in a developed urban environment proximate to uses such as restaurants and stores that produce odors from food preparation, which are commonplace in urban settings and do not constitute a potential land use conflict. Additionally, ambient odors in the Project site vicinity would be minimized through the buildings HVAC filtration system, which pursuant to building code regulation is required to be equipped with MERV-13 filtration or better. Furthermore, COA AQ-2, is imposed in accordance with mitigation measure 4.3.6b, requiring ongoing maintenance of the filtration on HVAC systems, which would further minimize particulate matter and odors from nearby urban development and operations. Therefore, there would be no potential land use conflict due to siting new residents in an area with established urban uses that generate or emit commonplace odors.

2010 FEIR Mitigation Measures

The 2010 FEIR mitigation monitoring and reporting program outlines the following mitigation measures:

MM 4.3.2 The proposed General Plan Update shall include a policy that would require the use of BAAQMD-approved criteria air pollutant reducing Basic Construction Mitigation Measures to all future construction projects within the GPU Planning Area where feasible whether or not construction-related emissions exceed applicable Thresholds of Significance.

Status: Applicable. In accordance with this measure, the Project is subject to environmental condition of approval AQ-1.

MM 4.3.6a The proposed General Plan Update shall include an action item that shall require the city to update the Zoning Code to require the City to identify the location of existing odor sources in the city.

Status: Not applicable.

MM 4.3.6b The following policy shall be incorporated into the Sustainability Element of the General Plan: When new development that would be a source of odors is proposed near residences or sensitive receptors, either adequate buffer distances shall be provided (based on recommendations and requirements of the BAAQMD CEQA Air Quality Guidelines) or filters or other equipment/solutions shall be provided to reduce the potential exposure to acceptable levels. Potential mitigation associated with this policy requirement will be coordinated with any required permit conditions from BAAQMD.

When new residential or other sensitive receptors are proposed near existing sources of odors, either adequate buffer distances shall be provided (based on recommendations and requirements of the BAAQMD CEQA Air Quality Guidelines) or filters or other equipment/solutions shall be provided to the source to reduce the potential exposure to acceptable levels.

Status: Applicable. The Project will introduce residents to an area in a shopping complex, in proximity to uses that emit particulate matter and odors. Accordingly, the Project is subject to environmental condition of approval AQ-2.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and Three Corridors Specific Plan, and there would be no additional impacts to air quality beyond those analyzed in the 2010 FEIR. The following environmental conditions of approval would apply to the Project to implement requirements of the 2010 FEIR mitigation measures.

AQ-1: During all construction activities including demolition and ground disturbance activities, on and offsite, the contractor shall implement the latest BAAQMD recommended Best Management Practices (BMPs) to control for fugitive dust and exhaust as follows:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material shall be covered.
3. All visible mud and dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as practicable. Building pads shall be laid as soon as practicable after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper working condition prior to operation.
8. A publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints shall be posted on the project site prior to the initiation of construction activities. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

AQ-2: High-efficiency particulate filtration systems shall be installed in residential heating, ventilation, and air-conditioning (HVAC) systems for residences within the Project. An ongoing maintenance plan for the buildings' HVAC air filtration system shall be required and may include the following:

1. Ensure that the use agreement and other property documents: (1) require cleaning, maintenance, and monitoring of the affected buildings for air flow leaks, (2) include assurance that new owners or tenants are provided information on the ventilation system, and (3) include provisions that fees associated with owning or leasing a unit(s) in the building include funds for cleaning, maintenance, monitoring, and replacements of the filters, as needed.

4.4. BIOLOGICAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☒	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	☐	☐	☒	☐
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Biological Constraints Assessment Memorandum, prepared by WRA Environmental Consultants, October 2021; and Tree Survey Report with Tree Preservation Plan, prepared by WRA Environmental Consultants, June 2022.

General Plan and Specific Plan EIR Findings

Biological resources are protected by federal and state statute including the Federal Endangered Species Act (FESA), the California Endangered Species Act (CESA), the Clean Water Act (CWA), and the Migratory Bird Treaty Act (MBTA) which affords protection to migratory bird species including birds of prey. These regulations provide the legal protection for identified plant and animal species of concern and their habitat.

The 2010 FEIR evaluated potential impacts to biological resources in Chapter 4.7 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.7.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result direct and indirect loss of habitat and individuals of endangered, threatened, rare, proposed, and candidate plant and wildlife species, plant species

identified by the California Native Plant Society with a rating of List 1A or 1B (i.e., rare, threatened, or endangered plants) as well as animal and plant species of concern and other non-listed special status species. This would be a less than significant impact with identified policies including Policy OS.3.9.

- Impact 4.7.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in disturbance, degradation, and removal of riparian habitat, coastal oak woodland, and wetland habitats. This would be a potentially significant impact and reduced to less than significant with mitigation measures 4.7.2a and 4.7.2b.

- Impact 4.7.4- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could interfere substantially with the movement of native resident or migratory fish or wildlife species. This would be a less than significant impact with incorporation of General Plan policies and actions items.

- Impact 4.7.5- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or any adopted biological resources recovery or conservation plan of any federal or state agency. Therefore, there is no impact.

- Impact 4.7.6- Implementation of the proposed General Plan and associated project components (Three Corridors Specific Plan, and Zoning Code Update), together with past, present, and probable future projects in the Planning Area and larger regional context, would result in a cumulatively significant loss of biological resources in the region. The project's incremental contribution to this significant cumulative impact is less than cumulatively considerable.

As shown on Figure 4.7-2 of the 2010 FEIR, the Project site and vicinity have the potential to support special-status animal species including the pallid bat, San Pablo song sparrow, monarch butterfly, and the Yellow-headed black bird. Based on the species descriptions presented on page 4.7.22 of the 2010 FEIR, neither the San Pablo song sparrow nor the yellow-headed black bird is expected to nest onsite since the site lacks salt marshes, tidal slews, and freshwater emergent wetlands.

Biological Assessment/ Tree Survey Report

A site-specific Biological Constraints Assessment Memorandum, dated October 26, 2021, was prepared by WRA Environmental Consultants for the subject property. This memorandum includes a characterization of the existing site conditions, a preliminary analysis of potential project impacts, and recommended avoidance and minimization measures. The assessment is based on a review of available literature and database from sources such as the California Natural Diversity Database records (CNDDB; CDFW 2021), U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation Species Lists (USFWS 2021), and California National Plant Society (CNPS) Inventory records (CNPS 2021a), and a reconnaissance-level site survey, conducted on September 15, 2021, to identify habitat types, including potential wetlands and waters of the U.S. and state, and to determine the potential for presence of special-status species on the site.

A site-specific Tree Survey Report (Arborist Report), dated June 14, 2022, was prepared by WRA Environmental Consultants for the subject property. This report identified 83 trees onsite, 25 of which are protected pursuant to the Pinole Municipal Code (PMC) Chapter 17.98, and 58 non-protected trees. The Project would require removal of 36 trees, including eight (8) protected trees, requiring a Tree Removal Permit. The protected trees proposed for removal are three Italian Stone Pines near the frontage of the Project site and five Coast Live Oaks at the rear on the wooded hillside.

The information presented in this section is based on the site-specific Biological Constraints Assessment Memorandum and the Tree Survey Report prepared for the Project, which are included in **Appendix B** and **Appendix B-1** of this document, respectively.

Project Consistency with the 2010 FEIR

4.4(a-b) (Special-Status Species and Sensitive Communities) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that implementation of the General Plan and Three Corridors Specific Plan could result in adverse effects, either directly or indirectly, on species listed as endangered, threatened, rare, proposed, and candidate plant and wildlife species as well as plant species identified by the CNPS with a rating of List 1A or 1B. The 2010 FEIR determined that impacts to biological resources would be less than significant with the implementation of mitigation measures and identified policies and actions.

The subject Project site is located within the Three Corridors Specific Plan Area considered as part of the 2010 FEIR, which is an area with a diversity of common and special status species primarily located along riparian corridors, undeveloped areas, and hillsides. Although the Project site is previously disturbed situated in an urban context with limited ability to support special status species, in accordance with mitigation measure 4.7.2b, a biological constraints analysis was conducted. The analysis concluded that there are no sensitive communities or habitats on site. One special status wildlife species, the white-tailed kite (*Elanus leucurus*) was determined to have moderate nesting potential in the larger trees located on the terraced slop in the southern portion of the site. The analysis further determined that nesting birds have the potential to nest in trees, shrubs, vegetation, and in man-made structures in the project area.

In accordance with the federal Migratory Bird Treaty Act (MBTA) and Section 3503 of the California Fish and Game Code, the biological evaluation recommends that preconstruction nesting bird surveys be conducted during the nesting season. This recommendation has been imposed on the project by environmental condition of approval (COA) BIO-1. As such, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact to biological resources relative to the 2010 FEIR.

4.4(c) (Adverse Effects to Jurisdictional Waters) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that implementation of the General Plan and Three Corridors Specific Plan would result in disturbance, degradation, and removal of riparian habitat, coastal oak woodland, and wetland habitats and those impacts would be less than significant with mitigation measures 4.7.2a and 4.7.2b. No creeks or tributaries are located within 100-feet of the project site, and therefore the Project is not subject to mitigation measure 4.7.2a. In accordance with mitigation measure 4.7.2b, the Project site was subject to a biological resources evaluation, which did not identify any jurisdictional features onsite. As such, the Project would have no impacts to jurisdictional waters. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.4(d) (Adverse Effect on Wildlife Movement) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that implementation of the General Plan and Three Corridors Specific Plan could interfere with movement of native resident or migratory fish or wildlife species and those impacts would be less than significant. Wildlife movement includes seasonal migration, long-term genetic flow, and daily movement within an animal's territory. Barriers to wildlife movement include large developments or major roadways. Movement to and from the subject property is restricted by established urban development surrounding the site, including Fitzgerald Drive to the north, commercial development to the west and east and residential development to the south. Therefore, the proposed development of the site will not result in a barrier to wildlife movement. Accordingly, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact to wildlife movement relative to the 2010 FEIR.

4.4(e) (Conflict with Local Ordinances) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that the General Plan and Three Corridors Specific Plan will not result in a conflict with a local policy or ordinance protecting biological resources. Chapter 17.96 of the Zoning Code addresses tree removal and defines protected trees. In accordance with Action CC 2.2.1, a Tree Survey Report with a Tree Preservation Plan (**Appendix B-1**) was prepared for the Project. The Report included an inventory of 83 trees onsite, concluded that three of the 36 trees proposed for removal are considered protected by the City of Pinole, and presented a preservation plan for the trees to remain.

In accordance with Chapter 17.96, removal of protected trees requires a Protected Tree Removal Permit Application and compliance with conditions including planting trees onsite or the payment of an in-lieu fee as set forth in COA BIO-2 below. The project proposes to plant 183 new trees for a net increase on the site of 154 trees. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact due to a conflict with local ordinances to protect biological resources relative to the 2010 FEIR.

4.4(f) (Conflicts with Habitat Conservation Plans) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that the Project would not conflict with the provision of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved Conservation Plan and that there would be no impacts. There are no established habitat conservation plans applicable to the Project site. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

MM 4.7.2a Require a minimum 100-foot setback from the top of creek banks (Pinole Creek, Catty Creek, Duncan Canyon/Cole Creek, Shady Draw, Faria Creek, and Roble Creek) for development and associated above-ground infrastructure. Analyze the adequacy of a 100-foot setback as a part of project and environmental review and require a larger setback where necessary to mitigate project impacts.

Status: Not Applicable. The Project site is not located within 100-feet of a creek top of bank.

MM 4.7.2b The City shall require biological resources evaluation for discretionary projects in areas identified to contain or possibly contain plant and/or wildlife species designated by state and federal agencies as rare, threatened, or endangered. This evaluation shall be conducted prior to the authorization of any ground disturbance. For proposed projects in which plant and/or wildlife species designated by state and federal agencies as rare, threatened, or endangered are found, the City shall require feasible mitigation of impacts to those species that ensure that the project does not contribute to the decline of the affected species such that their decline would impact the viability of the species. Such mitigation measures may include providing and permanently maintaining similar quality and quantity of replacement habitat, enhancing existing habitat areas, or paying fees towards an approved habitat mitigation bank. Replacement habitat may occur either on-site or at approved off-site locations. Feasible mitigation shall be determined by the City after the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Game (now California Department of Fish and Wildlife) are provided an opportunity to comment. Mitigation shall emphasize a multi-species approach to the maximum extent feasible. This may include development or participation in a habitat conservation plan.

Status: Applicable. The Project has complied with this measure by conducting a biological evaluation incorporated in the Project's Biological Constraints Assessment Memorandum (**Appendix B**). Based on recommendations therein, the Project is subject to COA BIO-1 set forth below.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to biological resources relative to what was identified the 2010 FEIR. The Project has complied with mitigation measure 4.7.2b through the preparation of a project-specific Biological Resources Assessment, and with Action CC 2.2.1, through the preparation of an Arborist Report. The following COAs are based on the recommendations of the site specific reports.

BIO-1: To avoid and minimize potential impacts to nesting birds including passerines and raptors, the following measures shall be implemented:

1. Grading or removal of potentially occupied habitat should be conducted outside the nesting season, which occurs between approximately February 1 and August 31.
2. If grading between August 31 and February 1 is infeasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird survey (migratory species, passerines, and raptors) of the potentially occupied habitat (trees, shrubs, grassland) shall be performed by a qualified biologist within 7 days of groundbreaking. If no nesting birds

are observed no further action is required and grading shall occur within one week of the survey to prevent “take” of individual birds that could begin nesting after the survey.

3. If active bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the occupied habitat until the young have fledged, as determined by a qualified biologist.
4. The radius of the required buffer zone can vary depending on the species, (i.e., 75-100 feet for passerines and 200-500 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with CDFW.
5. To delineate the buffer zone around the occupied habitat, construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude.
6. Biological monitoring of active nests shall be conducted by a qualified biologist to ensure that nests are not disturbed and that buffers are appropriate adjusted by a qualified biologist as needed to avoid disturbance.
7. No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed.

BIO-2: Prior to any tree removal or alteration, the applicant shall obtain approval from the City of Pinole to implement a plan for tree preservation and replacement in accordance with the City’s Tree Removal Permit. Replacement of protected trees onsite shall either consist of planting or replacement trees onsite as part of the development over and above the landscaping that would otherwise be required at a value equal to the value of the protected trees that will be removed, or through the payment of an in-lieu fee to the City in an amount equal to the value of the protected trees that will be removed.

4.5. CULTURAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	☐	☐	☒	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Archaeological Survey Report, prepared by ALTA Archaeological Consulting, October 2021.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to cultural resources in Chapter 4.10 including the Three Corridors Specific Plan area and determined the following:

- Over 40 archaeological and historical investigations, covering approximately 60% of the Pinole General Plan Update Planning Area have been conducted.
- Impact 4.10.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in the potential disturbance of cultural resources (i.e., prehistoric sites, historic sites, and isolated artifacts and features) and human remains. This would be a potentially significant impact and reduced to less than significant with mitigation measures 4.10.1a through c.
- Impact 4.10.3- Adoption of the proposed project along with foreseeable development in the region could result in the disturbance of cultural resources and human remains. This contribution is considered cumulatively considerable and would be reduced to less than significant levels with mitigation measures 4.10.1a through c.

Archaeological Assessment

Consistent with mitigation measure 4.10.1a set forth in the 2010 FEIR, an archaeological assessment was completed for the Project site (**Appendix C**), Based on archival research and an archaeological field survey conducted on October 8, 2021, the report did not identify any cultural resources onsite or in the site vicinity.

Historic Evaluation

Consistent with mitigation measure 4.10.1a set forth in the 2010 FEIR, the archaeological survey report prepared for the Project, includes a review of historic registers and inventories, which indicated that no historical landmarks, and points of interest are present within or in the vicinity of the Project site. An evaluation of the existing vacant building (formerly K-Mart) on site determined that it is not eligible for listing as a historical resource, pursuant to CEQA.

Project Consistency with the 2010 FEIR

4.5(a) (Historic Resources) No Change Relative to the 2010 FEIR: The 2010 FEIR concluded that compliance with mitigation measure 4.10.1a and General Plan Action CC.4.2.4, would ensure that subsequent development projects result in less than significant impacts to historical resources. The Project site is currently developed with a vacant, "big box" building, (formerly a K-Mart store), which will be demolished to develop the Project. This building was constructed in 1981 along with multiple other commercial buildings associated with the Pinole Vista Shopping Center. Given the relative recency of the construction of the existing building on the Project site and the ubiquity of this type of commercial shopping centers in California from this time period, the building itself is not associated with a unique pattern of history significant to the cultural heritage of Pinole, California, or the United States. Additionally, the building is not associated with significant local, state, or national persons. Furthermore, the building does not demonstrate aesthetic qualities that speak to an investment of artistic consideration in its design. As such, the existing, vacant, building on the Project site is not considered eligible as a historical resource. Accordingly, it proposed demolition will have no impact to historic resources. Therefore, no new significant impacts or substantial increase in the severity of previously identified impacts, due to a substantial adverse change in the significance of a historical resource, would result from the Project relative to the 2010 FEIR findings.

4.5(b) (Archaeological Resources) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that compliance with mitigation measures 4.10.1a and 4.10.1b, as well as General Plan Actions CC.4.2.4 and 4.2.5, would ensure that subsequent development projects result in less than significant impacts to archaeological resources. In compliance with mitigation measure 4.10.1a, the Project completed an Archaeological Assessment including a database review, records search, and archeological site survey to evaluate the site for recorded evidence of cultural resources with negative results. However, ground surface visibility being poor or non-existent for a majority of the Project site due to hardscaped surfaces, ground-disturbing activities from project development could result in potentially significant impacts to buried archeological resources, as identified by the 2010 FEIR.

To mitigate potential impacts to cultural resources (archeological and/or tribal), the Project has complied with mitigation measure 4.10.1a by conducting an archaeological assessment, which recommends an evaluation by a qualified professional archaeologist in the event previously unidentified cultural resources are encountered during Project development. In accordance with mitigation measure 4.10.1b, environmental condition of approval (COA) CUL-1 is imposed on the Project. With the implementation of COA CUL-1, the Project will result in less than significant impacts from a substantial adverse change in the significance of an archaeological resource. Therefore, no new significant impact or substantial increase in the severity of a previously identified impacts would result from the Project relative to the 2010 FEIR findings.

4.5(c) (Discovery of Human Remains) No Substantial Change Relative to the 2010 FEIR: In the event that during ground disturbing activities, human remains are discovered, the Project shall comply with mitigation measure 4.10.1c as imposed by COA CUL-2, which requires the immediate cessation of ground disturbing activities near or in any area potentially overlying adjacent human remains and contacting the City and County Coroner upon the discovery of any human remains. If it is determined by the Coroner that the discovered remains are of Native American descent, the Native American Heritage Commission shall be contacted immediately. If required, the Project sponsor shall retain a City-qualified archeologist to provide adequate inspection, recommendations, and retrieval. Compliance with COA CUL-2 as well as California Health and Safety Code Section 7050.5 and performance of actions therein will ensure that in the event of accidental discovery of historically significant remains the Project will result in less than significant impacts. Therefore, no new significant impact or substantial increase in the severity of a previously identified impacts would result from the Project relative to the 2010 FEIR findings.

Applicable 2010 FEIR Mitigation Measures

MM 4.10.1a The City shall include the following as an action in the Community Character Element of the General Plan Update. Cultural resources studies (i.e., archaeological, and historical investigations) shall be required for all applicable discretionary projects, in accordance with CEQA regulations, for areas not previously surveyed and/or that are sensitive for cultural resources. The studies should identify cultural resources (i.e., prehistoric sites, historic sites, and historic buildings/structures) in the project area, determine their eligibility for inclusion in the California Register of Historical Resources, and provide feasible and appropriate measures

for the protection of any historical resources or unique archaeological resources to maximum extent feasible. Cultural resources studies should be completed by a professional archaeologist or architectural historian that meets the Secretary of the Interior's Professional Qualifications Standards in archaeology.

Status: Applicable. The Project has complied with this measure by completing an Archaeological Survey Report. Based on recommendations therein, the Project is subject to COA CUL-1, set forth below.

MM 4.10.1b The City shall include the following as an action in the Community Character Element of the General Plan Update. Should any cultural resources such as structural features, unusual amounts of bone or shell, artifacts, or architectural remains be encountered during development activities, work shall be suspected within 50 feet of the discovery and the City of Pinole Community Development Department shall be immediately notified. At that time, the City will coordinate any necessary investigation of the discovery with an appropriate specialist (e.g., archaeologist or architectural historian). The project proponent shall be required to implement any mitigation necessary for the protection of cultural resources.

The City of Pinole and the project application shall consider mitigation recommendations presented by a qualified archaeologist or other appropriate technical specialist for any unanticipated discoveries. The City and the project applicant shall consult and agree upon implementation of a measure or measures that the City and applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, document, curation, data recovery, or other appropriate measures.

Status: Applicable. Based on the recommendations presented in the Archaeological Survey Report, the Project is subject to COA CUL-1, set forth below. COA CUL-1 ensures compliance with this measure.

MM 4.10.1c The City shall include the following as an action in the Community Character Element of the General Plan Update. If human remains are discovered, all work must halt within 50 feet of the find, the City of Pinole Community Development Department shall be notified, and the County Coroner must be notified accordingly to Section 5097.98 of the California Public Resources Code and Section 7050.5 of California's Health and Safety Code. If the remains are determined to be Native American, the coroner will notify the Native American Heritage Commission and the procedures outline in CEQA Section 15064.5(d) and (e) shall be followed.

Status: Applicable. Based on the recommendations presented in the Archaeological Survey Report, the Project is subject to COA CUL-2, set forth below. COA CUL-2 ensures compliance with this measure.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to archaeological resource relative to what was identified the 2010 FEIR. The Project has complied with mitigation measure 4.10.1a through the preparation of a project specific Historic Evaluation and an Archaeological Assessment, which identifies the following recommendations, imposed as environmental conditions of approval:

CUL-1: To ensure the Project does not result in impacts to buried archaeological resources onsite, if present, the following shall be implemented:

1. **Training**. Prior to commencement of ground-disturbing activities, a professional archaeologist shall conduct a preconstruction training for construction personnel. The training shall familiarize individuals with the potential to encounter prehistoric artifacts or historic-era archaeological deposits, the types of archaeological material that could be encountered within the Project Area, and the requirement for a monitor to be present during initial ground-disturbing activities.

2. **Monitoring**. During initial ground disturbing activities on native soils, a Secretary of the Interior-qualified archeologist shall be onsite to monitor activities. The monitor shall have the authority to temporarily halt work to inspect areas as needed for potential cultural materials or deposits. Daily monitoring logs shall be completed by the monitor.
3. **Post-review Discoveries**. In the event that cultural resources are exposed during construction, all earth work occurring within 100 feet of the find shall be immediately stopped until a Secretary of Interior-qualified Archaeologist inspects the material(s), assess historical significance, consults with Tribes and other stakeholders as needed, and provides recommendations for the treatment of the discovery.
4. **Archaeological Monitoring Report**. Within 60 days following completion of construction work, an archeological monitoring report shall be submitted to the City. The report shall include the results of the monitoring program (even if negative), a summary of any findings or evaluation/data recovery efforts, and supporting documentation (e.g., daily monitoring logs).

CUL-2: In the event that human remains are encountered within the Project Area during Project-related, ground-disturbing activities, all work must stop, and the County Coroner immediately notified of the discovery. If the County coroner determined that remains are, or are believed to be Native American, then the Native American Heritage Commission must be contacted by the Coroner so that a “Most Likely Descendant” (MLD) can be designated to provide further recommendations regarding treatment of the remains. A Secretary of Interior-qualified Archaeologist should also evaluate the historical significance of the discovery, the potential for additional human remains to be present, and to provide further recommendations for treatment of the resource in accordance with the MLD recommendations. Federal regulations require that Native American human remains, funerary objects, and object of cultural patrimony are handed consistent with the requirement of the Native American Graves Protection and Repatriation Act.

4.6. ENERGY

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to energy in Chapter 4.13 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.13.3- Development under the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase the consumption of energy associated with electrical, natural gas, and vehicle fuel. This is considered to be a less than cumulatively considerable impact.

Project Consistency with the 2010 FEIR

4.6(a-b) (Energy Consumption) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that the wasteful, inefficient, or unnecessary consumption of energy resources was a less than cumulatively considerable impact. The FEIR acknowledges that the development and operation of proposed residential uses will increase energy consumption, but that new development will be more energy efficient pursuant to the requirements of building energy efficiency standards under the building code.

Development of the Project would be subject to standards promoting energy efficiency in new construction. The subject Project would be required to comply with the latest energy efficiency standards as well as other green building standards under Title 24, which is confirmed through the City's building permit review process and would be consistent with Policy SE 1.4 for meeting applicable green building standards. Through building permit review, the construction plans would be evaluated for inclusion of required green building features, consistent with state and local regulations for applying green building standards in new construction. The Project would be required to comply with the requirements of the City's water efficient landscape ordinance, thereby contributing to a reduction in energy needed to treat and convey water. Construction of the Project is subject to the BAAQMD best management practices that requires minimizing idling time and maintaining construction equipment to manufacturer's specifications, which reduces inefficient consumption of fuel. As a multi-family residential development subject to the latest building code and construction standards, energy consumption of the Project will not be wasteful or inefficient, nor will it obstruct a state or local plan for renewable energy.

The Project is consistent with General Plan policies, such as Policy HS.5.2, to promote infill development along corridors and to locate residences near transit and services, which can reduce automobile travel and fuel consumption. The Project would introduce new residents to an area well developed with existing good and services including a grocery store, restaurants, and other retail stores. Two bus stops are located within 200-300 feet of the Project site that are served by WestCAT bus service and AC Transit with connectivity to regional destinations.

Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to energy relative to what was identified in the 2010 FEIR. The Project consists of development that is required to comply with the latest energy efficiency standards as a new construction and is consistent with the General Plan policies encouraging infill development near transit. The Project is subject to uniformly applied development standards including review of construction plans by building officials to verify compliance with latest building codes. No environmental conditions of approval related to energy are required.

4.7. GEOLOGY AND SOILS

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:	☐	☐	☒	☐
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☒
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Preliminary Demolition, Grading, and Drainage Plans, prepared by Adobe Associates, Inc., dated March 2021; Geotechnical Report, prepared by Rockridge Geotechnical, April 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated the potential impacts related to geology and soils in Chapter 4.8 and determined the following.

- Impact 4.8.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in the construction of projects over a seismically hazardous area. This is considered less than significant impact.

- Impact 4.8.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in increased soil, wind, and water erosion and loss of topsoil, due to grading activities within the Planning Area. This is considered a less than significant impact.

- Impact 4.8.3- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) may result in construction in areas subject to landslide. This impact is less than significant.

- Impact 4.8.4- Implementation of the proposed (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would expose buildings, pavements, and utilities to significant damage as a result of underlying expansive or unstable soil properties. This is considered a less than significant impact.

- Impact 4.8.5- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), in combination with existing, planned, proposed, and reasonably foreseeable development, would not contribute to cumulative geologic, seismic, and soil impacts, as the impacts would be site-specific and not additive in character. Thus, this impact would be less than cumulatively considerable.

- Impact 4.10.2- Adoption of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in the potential damage or destruction of undiscovered paleontological resources. This is considered a potentially significant impact that may be reduced to a less than significant impact with mitigation measure 4.10.2.

Project Consistency with the 2010 FEIR

4.7(a) (Seismic Hazards) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts from fault rupture, strong ground shaking, seismic-related ground failure, and landslides would be less than significant. The Pinole Vista Project site is not located within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. Strong to very strong ground shaking could occur at the site during a large earthquake on one of the nearby faults. However, the risk of fault offset at the site from a known active fault and future faulting in areas where no faults previously existed is very low. Due to the Project's location in the seismically active Bay Area region, as identified and considered in the 2010 FEIR, the site and the city as a whole have the potential to experience ground shaking in the event of an earthquake. The Project is subject to construction standards established for seismic safety within the latest California Building Code, which would minimize the impact of ground shaking on new development.

The Project site has been previously graded to accommodate the existing building and associated improvements. The site is sloped with elevations ranges from 205 feet to 215 feet above sea level from north to south. The northwestern driveway exhibits a downward slope from north to south with elevations changed from 2018 feet above mean sea level near Fitzgerald Drive to 212 feet amsl at the rear. The upward slope along the rear of the property increases to a height of 230 feet above mean sea level.

In accordance with Municipal Code Section 15.36.180, as well as General Plan Policy HS.3.1, a geotechnical report (**Appendix D**) was prepared for the Project. The Project would implement the recommendations of the report and would be consistent with General Plan Policy HS.3.2, HS.3.3, and HS.3.4 that address geologic and seismic hazard mitigations in project design, which are confirmed in the building permit review process, through environmental condition of approval (COA) GEO-1. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.7(b) (Erosion) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that impacts from soil erosion would be less than significant. The Project site is previously disturbed from past uses and

would be redeveloped with by removing all existing improvements, regrading the site and introducing a new building, access aisles, parking, and landscaping. As a project that will disturb more than 10,000 square feet of impervious surfaces, it is subject to implementation of stormwater management facilities to treat site runoff per Contra Costa County C.3 requirements. Best management practices for soil erosion and sediment control are required to be applied during construction. Compliance with these uniformly applied development standards ensure that potential adverse affects of erosions during redevelopment are avoided. Pursuant to Municipal Code Section 15.36.190, Erosion and Sediment Control Plan, the project is subject to COA GEO-2, which requires preparation and implementation of a final erosion and sediment control plan. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.7(c) (Geologic Stability) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts from geologic or soil instability would be less than significant. The geotechnical assessment of the site, prepared by Stevens, Rockridge Geotechnical, concluded that proposed improvements are feasible provided that recommendations are incorporated as part of project implementation. The Geotechnical Report identified the primary geotechnical concerns of the site to be related to variable thickness and composition undocumented fill and the need to provide an adequate foundation support for the proposed building. The Geotechnical Report provides recommendations for site grading, foundation design, shoring design and construction, and seismic design. Further, the Report provides that a qualified engineer should review of the final project plans and specifications by to verify conformance to recommendations and on-site verification by a field engineer of preparation, placement, and compaction of fill and installation of building foundations.

The results of this comprehensive geotechnical investigation shall be provided as a report during the building permit issuance process and prepared in accordance with the most recent California Building Code. This recommendation is incorporated in COA GEO-1 below.

The design of the Project would include demolition and removal of all existing surface structures, paving, and improvements and grading with stripping of up to 3 to 4 inches where present. Retaining walls are proposed at the southwest corner of the site to retain an uphill slope that abuts the parking lot, and at the north side of the Project site where the downhill slope would undercut the parking lot and where the bioretention area must be excavated. Site retaining walls would be reviewed during the building permit process. Although the conditions in the locations of the proposed retaining walls were observed to be structurally sound, the Project would provide detailed structural analysis of this wall and all retaining walls and analysis of slope stability in the building permit review process, per recommendations of the geotechnical assessment and as imposed by COA GEO-1.

As a standard part of the Building Permit review process, soils and geotechnical reports are required for new construction and recommendations. In accordance with Municipal Code Section 15.36.180, a geotechnical report was prepared, and recommendations therein imposed as COA GEO-1. Incorporation of the recommendations in the geotechnical report and review for building code compliance through the Building Permit process would ensure that the Project would not result in impacts due to unstable geologic units or cause on- or off-site geologic impacts. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.7(d) (Expansive Soils) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that there would be less than significant impacts due to expansive soils. The site-specific geotechnical report identified conditions on the site and determined the proposed development was feasible with implementation of recommendations in the report. The Project would be required to incorporate the recommendations of the geotechnical report per COA GEO-1 and comply with building code standards for seismic safety. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.8(e) (Septic Tanks) No Change Relative to the 2010 FEIR: The Project would not include the use of septic tanks and connection to the existing sewer line along Fitzgerald Drive is planned.

4.9.(f) (Paleontological Resources) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts on unique geologic or paleontological resources would be less than significant with implementation of mitigation measure 4.10.2. The potential to uncover undiscovered paleontological resources

was considered in the 2010 FEIR, and mitigation measure 4.10.2 was created to include a policy requiring work to be suspended within 50 feet of any discovered potentially unique paleontological resources and for the City to be contacted to coordinate further investigation. A search of the University of California Museum of Paleontology database did not identify any evidence of significant paleontological resources within the Pinole General Plan Planning Area. Nonetheless, in compliance with mitigation measure 4.10.2, the Project is subject to COA GEO-3, which identifies protocol in the event that paleontological resources are encountered during construction activities. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

The following mitigation measures from the 2010 FEIR mitigation monitoring and reporting program apply to the project:

MM 4.10.2 The City shall include the following as an action in the Community Character Element of the General Plan Update. Should any potentially unique paleontological resources (fossils) be encountered during development activities, work shall be suspended within 50 feet of the discovery and the City of Pinole Planning Division of the Development Services Department shall be immediately notified. At that time, the City will coordinate any necessary investigation of the discovery with a qualified paleontologist. The project proponent shall be required to implement any mitigation necessary for the protection of paleontological resources.

The City and the project applicant shall consider the mitigation recommendations of the qualified paleontologist for any unanticipated discoveries. The City and the project applicant shall consult and agree upon implementation of a measure or measures that the City and project applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures.

Status: Applicable. The Project is subject to this mitigation measure, through COA GEO-4 below.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and Three Corridors Specific Plan, and there would be no additional impacts to geology and soils beyond those analyzed in the 2010 FEIR. The following environmental conditions of approval would apply to the Project to implement General Plan policies, Municipal Code requirements, and mitigation measure 4.10.2.

GEO-1: The applicant shall incorporate the recommendations of the Project Geotechnical Report prepared by Rockridge Geotechnical (April 13, 2022) into construction drawings. Prior to issuance of a grading permit, the City shall review and accept the Geotechnical Report and verify that the Report provides adequate information for construction detail including detailed drainage, earthwork, foundation, and pavement recommendations. Final grading plan, construction plans, and building plans shall demonstrate that recommendations set forth in the geotechnical reports and/or to the satisfaction of the City Engineer/Chief Building Official have been incorporated into the design of the project.

Nothing in this condition of approval shall preclude the City Engineer and/or Chief Building Official from requiring additional information to determine compliance with applicable standards. The geotechnical engineer shall inspect the construction work and shall certify to the City, prior to issuance of a certificate of occupancy that the improvements have been constructed in accordance with the geotechnical specifications.

GEO-2: Prior to issuance of a grading permit, an erosion control plan along with grading and drainage plans shall be submitted to the City Engineer for review. The project shall comply with stormwater management requirements and guidelines established by Contra Costa County under the Contra Costa Clean Water Program Stormwater C.3 Guidebook and incorporate

Contra Costa County best management practices for erosion and sediment control for construction. All earthwork, grading, trenching, backfilling, and compaction operations shall be conducted in accordance with the City's Erosion Control requirements, Chapter 15.36.190 of the Municipal Code. Plans shall detail erosion control measures such as site watering, sediment capture, equipment staging and laydown pad, and other erosion control measures to be implemented during all construction activity.

GEO-3: Should any potentially unique paleontological resources (fossils) be encountered during development activities, work shall be suspended within 50 feet of the discovery and the City of Pinole Planning Division of the Development Services Department shall be immediately notified. At that time, the City will coordinate any necessary investigation of the discovery with a qualified paleontologist. The Project proponent shall be required to implement any mitigation necessary for the protection of paleontological resources. The City and the Project applicant shall consider the mitigation recommendations of the qualified paleontologist for any unanticipated discoveries. The City and the Project applicant shall consult and agree upon implementation of a measure or measures that the City and project applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures.

4.8. GREENHOUSE GAS EMISSIONS

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☐	☒
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; BAAQMD 2017 Bay Area Clean Air Plan; and BAAQMD CEQA Guidelines May 2017; Air Quality and Greenhouse Gas Assessment, prepared by Illingworth & Rodkin, Inc., October 25, 2021.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated the potential impacts related to greenhouse gas emissions in Chapter 4.13 and determined the following.

- Impact 4.13.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in greenhouse gas emissions that would not be anticipated to conflict with the goals of AB 32 nor result in a significant impact on the environment. This is a less than cumulatively considerable impact.

- Impact 4.13.2- Environmental effects of climate change are not currently expected to result in adverse impacts to the General Plan Update Planning Area. This is a less than cumulatively considerable impact.

- Impact 4.13.3- Development under the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase the consumption of energy associated with electrical, natural gas, and vehicle fuel. This is a less than cumulatively considerable impact.

Project Consistency with the 2010 FEIR

4.8(a) (Greenhouse Gas Generation) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that greenhouse gas emissions generation for buildout of the General Plan was a less than significant impact. The greenhouse gas emissions (GHG) generated by the Project would be attributable to GHG generation during construction and operation of the Project. Constructions impact would consist primarily of emissions from equipment exhaust and worker and vendor trips. long-term operational emissions would be associated with vehicular traffic within the project vicinity, energy and water usage, and solid waste disposal.

The Air Quality and Greenhouse Gas Analysis (**Appendix A**) prepared for the Project indicates GHG emissions 588 MT of CO2e for the total construction period. Neither the City nor BAAQMD have an adopted threshold of significance for construction related GHG emissions. However, the BAAQMD recommends quantifying emissions, disclosing that GHG emissions would occur during construction, and the incorporation of best management practices to reduce GHG emissions during construction where feasible and applicable. The Project would be required to comply with COA AQ-1, which imposes the latest BAAQMD best management practices, and is consistent with mitigation measure 4.3.2

With respect to operational emissions, the Air Quality and Greenhouse Gas Analysis uses a “Substantial Progress” efficiency metric of 2.8 MT CO2e/year/service population and a bright-line threshold of 660 MT CO2e/year based on the GHG reduction goals of EO B-30-15. The calculated annual emissions resulting from

operation of the proposed project are predicted to be 1,216 MT of CO2e in 2025 and 1,125 MT of CO2e in 2030, which exceed the GHG significance threshold in metric tons per year The service population[3] emission for the year 2025 and 2030 are predicted to be 1.9 and 1.8 MT CO2e/year/service population, which are within the service population threshold of significance for service population. However, to be considered an exceedance, the project must exceed both the GHG significance threshold in metric tons per year and the service population significance threshold in 2030. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.8(b) (Conflict with Plans) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that the implementation of the General Plan and Three Corridor Specific Plan would have a less than significant cumulatively considerable impact with implementation of relevant policies and actions in the General Plan. The Project is consistent with the General Plan and Three Corridors Specific Plan as a higher density residential infill development along the Appian Way corridor within a priority development area (PDA) pursuant to the Sustainable Community Strategy (SCS). Furthermore, the proposed buildings would be constructed in conformance with CALGreen and the Title 24 Building Code, which requires high-efficiency water fixtures, water-efficient irrigation systems, and compliance with current energy efficacy standards. As such, the Project would not conflict or otherwise interfere with the statewide GHG reduction measures identified in CARB's Scoping Plan. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

The following mitigation measures from the 2010 FEIR mitigation monitoring and reporting program apply to the project:

MM 4.3.2 The proposed General Plan Update shall include a policy that would require the use of BAAQMD-approved criteria air pollutant reducing Basic Construction Mitigation Measures to all future construction projects within the GPU Planning Area where feasible whether or not construction-related emissions exceed applicable Thresholds of Significance.

Status: Applicable. The Project shall comply with the latest BAAQMD best management practices, which is imposed by COA AQ-1.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and Three Corridors Specific Plan, and there would be no additional impacts from greenhouse gas emissions beyond those analyzed in the 2010 FEIR. The Project shall implement COA AQ-1 to apply BAAQQMD best management practices that minimize construction-related emissions.

[3] Service population refers to the number of future residents of a development. The project service population efficiency rate is based on the number of future residents.

4.9. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☐	☒
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☐	☒
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Phase 1 Environmental Site Assessment Report, prepared by Partner Engineering and Science, Inc., February 2022; and Contra Costa County Local Hazard Mitigation Plan, January 2018.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Hazards and Human Health in Chapter 4.6 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.6.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could include the routine transportation, use, or disposal of hazardous materials on the Planning Area Transportation network. This is considered a less than significant impact.

- Impact 4.6.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could include land uses that have the potential to result in an increased risk of release of hazardous materials. This is considered a less than significant impact.

- Impact 4.6.3- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could consist of land uses having the potential to result in an increased risk of release of hazardous materials. This is considered a less than significant impact.

- Impact 4.6.4- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could impair implementation of or physically interfere with the City's Emergency Operations Plan (EOP). This is considered a less than significant impact.

- Impact 4.6.5- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would not cumulatively contribute to regional hazards. This is less than cumulatively considerable.

Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment (ESA) was conducted for the 1500 Fitzgerald Project site in February 2022, in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries 'AAI' (40 CFR Part 312). (**Appendix E**). The Phase I ESA discusses the Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), Historical Recognized Environmental Conditions (HRECs), and environmental issues of the project site. The Phase I ESA included review of regulatory information, records research, and a site reconnaissance of the project site and neighboring properties on January 21, 2022.

The Phase I ESA did not identify RECs or CRECs during the course of the assessment. The site is listed in one or more historical databases as containing an inactive 1,000 gallon underground storage tank for waste oil that was listed as removed in June of 1990. Chemical analyses of soil samples documented the presence of Total Petroleum Hydrocarbons as oil and grease (TPH-og) at concentrations up to 78 parts per million (ppm), and the presence of TPH as diesel (TPH-d) and as gasoline (TPH-g) at concentrations below 10 ppm. These records constitute an HREC. However, given the record of tank removal and a Contra Costa County Health Services Department letter of no further action dated March 20, 1990, the tendency of petroleum hydrocarbons in the subsurface to degrade naturally over time, and the time elapsed since the tank was removed, this listing is not expected to represent a significant environmental concern.

The report notes that, based on the age of the building there is a potential for asbestos-containing materials (ACMs) but access to the structure could not be gained at the time of the site assessment to determine its presence. Therefore, it is recommended that prior to any demolition, a comprehensive asbestos survey of the property be conducted to determine the presence, condition, friability, and likely future condition of suspect or confirmed ACM. All suspect materials must be handled as ACM according to local, state, and federal regulations until the results of sampling and analysis indicate the material is a non-ACM. Lead based paint is not likely to be used in buildings constructed after 1977 and due to the age of the structure, circa 1981, it is not likely to contain lead-based paints.

Project Consistency with the 2010 FEIR

4.9(a-b) (Routine Transport, Upset and Accident Involving Release) No Change Relative to the 2010 FEIR: The 2010 FEIR concluded that implementation of the Three Corridors Specific Plan would result in the use, storage, and transport of hazardous materials, that accidental release could constitute a hazard to the public or the environmental, and that compliance with local, state, and federal regulation would ensure impacts are less than significant.

Demolition and construction activities of the subject Pinole Vista Project will result in the temporary presence of potentially hazardous materials including, but not limited to, fuels and lubricants, paints, solvents, insulation, electrical wiring, and other construction related materials onsite. Although potentially hazardous materials may be present onsite during construction, the Project is required to comply with all existing federal, state, and local safety regulations governing the transportation, use, handling, storage, and disposal of potentially hazardous materials. Once construction activities are complete there will not be ongoing use or generation of hazardous materials onsite due to the proposed residential use.

Additionally, prior to the commencement of site preparation, a Storm Water Pollution Prevention Plan (SWPPP) that includes Best Management Practices will be prepared and implemented during all construction activities (see Hydrology/Water Quality discussion below). Accordingly, the impact of hazards to the public or the environment through the routine transport, use, or disposal of hazardous materials from the proposed Project would be less than significant. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(c) (Emit or Handle Hazardous Material within ¼ Mile of School Sites) No Change Relative to the 2010 FEIR: The 2010 FEIR concluded that the implementation of the Three Corridors Specific Plan would result in a less than significant impact due to the release and exposure of hazardous material onto school sites.

The nearest public school is Harbour Way Elementary, located 0.25 miles south of the Project Site. Pinole Middle School is located approximately 0.4 miles north of I-80 on the west side of Appian Way, and Little Genius Montessori is about 0.25 miles east of the site on Appian Way south of I-80. There are no activities associated with the proposed Project that would pose a threat to nearby schools from the release or handling of hazardous materials. As such, the Project would not result in any increased risk of exposure to existing schools. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(d) (Existing Hazardous Materials Sites) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that implementation of the Three Corridors Specific Plan would result in less than significant impacts due to release and exposure of hazardous materials.

In accordance with Action HS.3.5.4, which directs that at the time of new development, any known or discovered hazardous materials should be cleaned up and mitigated, a Phase I Environmental Site Assessment (ESA) was prepared. The Phase I ESA identified environmental concerns associated with past uses onsite and the potential presence of ACM, due to the age of the building onsite, as described above. It indicates that asbestos containing materials may be present but could not be verified at the time of survey. Prior to demolition, the Phase I ESA recommended submittal of an asbestos survey report to evaluate the presence of ACM and make recommendations for removal, if warranted. Environmental condition of approval (COA) HAZ-1 shall be imposed on the Project requiring the submittal of an asbestos survey report and the preparation and implementation of an Operations and Maintenance Plan if ACM removal is warranted. Similarly, due to the identified environmental concern associated with past uses onsite, the Project is subject to COA HAZ-2, which requires best management practices regarding potential soil hazards in the event that unknown contamination is encountered during construction. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(e) (Public Airport Land Use Plans) No Change Relative to the 2010 FEIR: The 2010 FEIR concluded that no impacts related to airports or airstrips would occur as no airports are located within or proximate to the planning area. The subject Project site is not located within the boundaries of an airport land use plan, nor is it located in direct proximity to a private airstrip. The nearest airports are the San Rafael Airport, approximately 22 miles west, and Buchanan Field Airport, approximately 17 miles east, from the Project site. Accordingly, no impacts associated with airport-related hazards will result from the Project. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(f) (Impair Emergency Response Plan) No Change Relative to the 2010 FEIR: The 2010 FEIR concluded that the Three Corridors Specific plan would not impair implementation of or physically interfere with the City's Emergency Operations Plan (EOP) and impacts would be less than significant. The City of Pinole responds to emergencies in accordance with the adopted Emergency Operations Plan and provides emergency preparedness information through Pinole Ready including alerts, response, recovery, and mitigation.

As a multi-family residential development generally consistent with the Three Corridors Specific Plan, none of the proposed Project improvements are expected to impair the implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan. The Project includes adequate onsite access to accommodate emergency vehicles, including adequate driveway/drive aisle width and turning radii. Furthermore, the Fire Department has reviewed the Project, including proposed emergency vehicle access and circulation, in accordance with General Plan Action HS.4.1.3, and determined that improvements do not impair movement of emergency vehicles and equipment. Therefore, the Project will not result in a new significant

impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(g) (Wildland Fire Hazards) No Change Relative to the 2010 FEIR: No impacts related to wildland fire hazard would occur as the Project area is largely surrounded by urban development and roadways and is not adjacent to a wildland urban interface fire hazard area. The Project site is categorized as a Non-VHFHZ by CAL FIRE and surrounded by land designated as Non-VHFHZ on all sides. Based on the site's location outside of a designated fire hazard zone and the proximity of the site to existing fire stations (1-3 miles), there would be no impacts related to the exposure of people or structures to a significant risk of loss, injury, or death involving wildland fires. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to human health caused by hazards or hazardous materials relative to what was identified the 2010 FEIR. The Project is generally consistent with the Three Corridors Specific Plan by introducing residential development on an infill and underutilized site. The following environmental conditions of approval are imposed in compliance with the General Plan Actions and Policies/Goals set forth in the Three Corridors Specific Plan regarding hazardous materials and waste:

HAZ-1: Prior to issuance of any demolition, grading, or building permit, the applicant shall submit a report resulting from a comprehensive asbestos survey and, if asbestos containing materials (ACM) are identified onsite, plans for safe removal. If ACM are verified, the applicant shall prepare an Operations and Maintenance (O&M) Safety Plan and receive approval of the O&M Plan by the City of Pinole Fire Department. The purpose of the O&M Plan is to establish protocol for the removal and disposal of ACM and shall also address the potential for accidental discovery of hazards and hazardous materials during construction activities including lead-based paints and groundwater contamination. Said plans shall be implemented during demolition and construction activities including the following:

a) Use appropriate site control measures such as wet methods to minimize airborne dust generation.

b) Identify construction worker protection plan for handing ACM.

c) Characterize material export and proper disposal requirements.

d) Notification requirements to the Bay Area Air Quality Management District in accordance with the Asbestos Demolition and Renovation Program requirements.

HAZ-2: The Project applicant shall implement the following Best Management Practices (BMPs) regarding potential soil hazards:

a) Soil generated by construction activities shall be stockpiled onsite in a secure and safe manner or if designated for off-site disposal at a permitted facility, the soil shall be loaded, transported, and disposed of in a safe and secure manner. All contaminated soils determined to be hazardous or non-hazardous waste must be adequately profiled (sampled) prior to acceptable reuse or disposal at an appropriate off-site facility. Specific sampling and handling and transport procedures for reuse or disposal shall be in accordance with applicable local, state, and federal laws, the Regional Water Quality Control Board (RWQCB), the Contra Costa Environmental Health Services Department, and the City of Pinole.

b) Groundwater pumped from the subsurface shall be contained onsite in a secure and safe

manner, prior to treatment and disposal, to ensure environmental and health issues are resolved pursuant to applicable laws and policies of the City of Pinole, the RWQCB and/or Contra Costa Environmental Health Services Department.

4.10. HYDROLOGY AND WATER QUALITY

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☐	☐	☒	☐
i) result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Stormwater Control Plan, prepared by Adobe Associates, Inc., March 2021; FEMA FIRMette maps, accessed May 2022; and Department of Conservation Tsunami Hazard Area Map, accessed May 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated the potential impacts related to hydrology and water quality in Chapter 4.9 and determined the following.

- Impact 4.9.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in the discharge of polluted runoff during construction and operation of future urban development potentially violating water quality standards or otherwise substantially degrading surface water quality. This is considered a potentially significant impact that may be reduced to less than significant with implementation of mitigation measure 4.9.1.

- Impact 4.9.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in the degradation of groundwater quality resulting from

construction and operation of future urban development. This is considered a less than significant impact.

- Impact 4.9.4- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase impervious surfaces and alter drainage conditions and rates in the Planning Area, which could result in increased runoff and potential flooding impacts. This is considered a less than significant impact.

- Impact 4.9.5- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) and its associated project components could create or contribute stormwater runoff water which would exceed the capacity of the City's stormwater drainage system. This is considered a less than significant impact.

- Impact 4.9.6- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in the development of urban uses within areas subject to flooding, dam failure inundation, and/or sea level rise. This is considered a potentially significant impact that may be reduced to less than significant with implementation of mitigation measures 4.9.6a, b, and c.

- Impact 4.9.7- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), in combination with other development activities within the watershed, would contribute to a cumulative degradation of water quality from construction activities and increased urban runoff. This is considered a potentially cumulatively considerable that may be reduced to less than cumulatively considerable with implementation of mitigation measure 4.9.1.

- Impact 4.9.8- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could increase impervious surfaces and alter drainage conditions and rates in the Planning Area, which could contribute to cumulative flood conditions in the Pinole Creek watershed and San Pablo Bay. This is cumulatively considerable that may be reduced to less than cumulatively considerable with implementation of mitigation measures 4.9.1, 4.9.6a, 4.9.6b, and 4.9.6c.

Stormwater Regulation

The State Water Resources Control Board is responsible for implementing the Clean Water Act and has issued a statewide General Permit for construction, which acts to minimize pollutant runoff to surface waters and groundwater. The San Francisco Bay Regional Water Quality Control board is the regional entity facilitating regional implementation and has issued a Municipal Stormwater National Pollutant Discharge Elimination System (NPDES) permit to Contra Costa County and its 19 cities. The NPDES permit applies to development projects and establishes runoff requirements. The City's coverage under the NPDES requires compliance with the Contra Costa Clean Water Program Stormwater C.3 Guidebook to protect water quality, which includes implementing best management practices (BMP) to control runoff pollutants and guidance on Low Impact Development (LID) to management stormwater on site. Further, these requirements for stormwater control under the NPDES permit are integrated into the Pinole Municipal Code as Chapter 8.20. The City of Pinole Department of Public Works has jurisdiction over stormwater management in the city and is a co-permittee of the Contra Cota County Clean Water Program.

Project Consistency with the 2010 FEIR

4.9(a) (Discharge) No Substantial Change Relative to the 2010 FEIR: Based on the analysis in the 2010 FEIR, implementation of the General Plan and Three Corridor Specific Plan would have a potentially significant impact due to discharge of polluted runoff that may be reduced to less than significant with implementation of mitigation measure 4.9.1a.

The Project is required to implement applicable requirements for stormwater control and apply best management practices to the Project's management of stormwater on site, in compliance with Pinole Municipal Code Chapter 8.20. Compliance with municipal code requirements is a standard condition of approval for

construction, which has been incorporated as condition of approval (COA) HYD-1. With adherence to the municipal code, the Project satisfies mitigation measure 4.9.1. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(b) (Groundwater) No Substantial Change Relative to the 2010 FEIR: Based on the analysis in the 2010 FEIR, implementation of the General Plan and Three Corridor Specific Plan would have a less than significant impact to degradation of groundwater and no impact on the extraction of groundwater. Implementation of General Plan policies, Municipal Code, and applicable requirements from the Contra Costa Clean Water Program Stormwater C.3 Guidebook were identified as measures that would reduce impacts to less than significant levels. The proposed Pinole Vista Project would comply with these requirements pursuant to COA HYD-1. The intensification of uses in the Specific Plan area was determined to potentially result in the increase in runoff containing pollutants that could degrade groundwater quality. The Project would result in the reduction of impervious area on site and will include biorientation areas for infiltration. The Project does not involve the extraction and use of groundwater. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(c)(i-iv) (Drainage Pattern) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts due to increase in impervious surfaces and alteration of drainage conditions, as they relate to erosion, runoff, and drainage flow would be less than significant with General Plan policies and mitigation. Implementation of General Plan policies, Municipal Code, and applicable requirements from the Contra Costa Clean Water Program Stormwater C.3 Guidebook were identified as measures that would reduce impacts to less than significant levels. The Project would comply with these requirements and is subject to COA HYD-1.

The City is served by an existing storm drain system, and the City Engineering Division confirms infrastructure capacity for new developments. As new development has the potential to incrementally increase the use of storm drains, the City has established development impact fees levies on new developments to contribute to any needed new or expanded infrastructure. Payment of development impact fees, as well as review of final drainage plans, is a requirement in the building permit process. Development impacts fees are used to maintain and build out the city's storm drain system as planned. The Project is consistent with the development potential analyzed in the 2010 FEIR, includes storm drain infrastructure onsite with connections to the existing storm drain system, and is subject to impact fees. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(d) (Flood Hazard, Tsunami, or Seiche Zones) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that implementation of the General Plan and Specific Plan would have a potentially significant impact to flood hazards that may be reduced to less than significant with mitigation measures 4.9.6a, 4.9.6b, and 4.9.6c.

The Project is not expected to be impacted by flood hazards. As presented in the National Flood Hazard Layer FIRMette maps accessed from the Federal Emergency Management Agency (FEMA) in December 2021, the site is located in Zone X, outside of the Special Flood Hazard Areas. The Project site is not located on the shoreline and is not subject to associated risk of flooding in these areas. Tsunamis and seiches were not identified as significant flood hazards that may affect the Project: San Francisco Bay significantly attenuates tsunamis before they reach Pinole, and the Project is located approximately 1.4 miles from the shoreline. The site is not located in a tsunami hazard area, as shown in the California Department of Conservation Tsunami Hazard Area Map, accessed December 2021. As a result, there is no substantial risk of flood hazards, tsunamis, or seiches causing release of pollutants due to project inundation. Mitigation measures 4.9.6a, 4.9.6b, and 4.9.6c set forth in the 2010 FEIR address the impacts of sea level rise. However, the site is not located in an area identified as a shoreline area vulnerable to sea level rise, and the corresponding mitigation measures are not appliable to the Project. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.9(e) (Water Quality Control and Sustainable Groundwater) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that new development would be required to adhere to pertinent local, state, and federal agency requirements, and that with mitigation measure 4.9.1 and compliance with water quality

regulation including NPDES requirements, potential impacts to water quality would be reduced to less than significant levels.

The Project would meet this requirement through compliance with procedures under Chapter 8.20 of the Municipal Code, as identified in COA HYD-1, and would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Furthermore, in accordance with General Plan Action OS.8.8.2, the Project is subject to COA HYD-2, which requires compliance with the City's NPDES permit including preparation and implementation of an approved Stormwater Pollution Prevention Plan (SWPPP). Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

MM 4.9.1 General Plan Action HS.2.1.3 shall be revised as follows: Establish land use controls for properties that abut Pinole Creek in order to minimize potential conflicts between flood, resource protection and recreational goals. Adopt new development regulations that require applications for new development projects to adhere to pertinent local, state, and federal agency requirements. City Development regulation for properties that abut the Creek shall specify appropriate land uses and ensure that new projects will take into account issues including flow velocity, sediment load, and volume within Pinole Creek.

Status: Applicable. The Project is required to adhere to local, state, and federal regulations on stormwater management. Compliance with the Pinole Municipal Code, under Chapter 8.20, requires implementation of best management practices. Application of the latest guidance on best management practices from Contra Costa Country, including the Contra Costa Clean Water Program Stormwater C.3 Guidebook, is a standard condition of new development and has been imposed as environmental COA HYD-1.

MM 4.9.6a The City of Pinole shall work with the Bay Conservation and Development Commission (BCDC) to implement strategies to adapt to Bay-related impacts of climate change. The City shall work with BCDC to develop a vulnerability analysis for its shoreline and to address shoreline management issues that cross jurisdictional boundaries.

Status: Not Applicable. The Project is not located within 100 feet of the shoreline and is not located in an area identified as a shoreline area vulnerable to sea level rise in the 2010 FEIR.

MM 4.9.6b The City will continue to implement the Municipal Code flood protection standards for development within a FEMA-designated Special Flood Hazard Area and will coordinate with FEMA and other agencies in the evaluation and mitigation of future flooding hazards that may occur as a result of sea level rise.

Status: Not Applicable. The Project is not located in a flood hazard area.

MM 4.9.6c The City shall pursue funding for adequate protection from sea level rise and continued subsidence and construction in areas threatened by sea level rise and/or settlement.

Status: Not Applicable. The Project is not located in an area identified as a shoreline area vulnerable to sea level rise in the 2010 FEIR.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and Three Corridors Specific Plan, and there would be no additional impacts to hydrology beyond those analyzed in the 2010 FEIR. The following environmental conditions of approval would apply to the project to implement requirements of the 2010 FEIR mitigation measures.

HYD-1: Prior to issuance of a building permit, the applicant shall prepare a design-level Stormwater Management Plan that incorporates stormwater management requirements and best management practices, per Pinole Municipal Code Chapter 8.20 and Contra Costa County Clean Water Program requirements, including the Contra Costa Clean Water Program Stormwater C.3 Guidebook and demonstrates that the storm drain system has adequate capacity to serve the project. The Stormwater Management Plan shall be reviewed and accepted by the City Engineer.

HYD-2: Prior to issuance of a grading permit, the applicant shall file a Notice of Intent with the RWQCB and demonstrate compliance with the Statewide General Permit for Construction Activities.

In accordance with the National Pollution Discharge Elimination System (NPDES) regulations, the applicant shall prepare and implement a project-specific Stormwater Pollution Prevention Plan, including an erosion control plan, for grading and construction activities. The SWPPP shall address erosion and sediment control during all phases of construction, storage and use of fuels, and use and clean-up of fuels and hazardous materials. The SWPPP shall designate locations where fueling, cleaning and maintenance of equipment can occur and shall ensure that protections are in place to preclude materials from entering into storm drains. The contractor shall maintain materials onsite during construction for containments and clean-up of any spills. The applicant shall provide approval documentation from the RWQCB to the City verifying compliance with NPDES.

4.11. LAND USE AND PLANNING

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; City Council Resolution No. 2018-02; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Pinole Vista Apartments: An Economic Impact Brief, prepared by Marin Economic Consulting, dated July 13, 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Land Use in Chapter 4.1 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.1.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would not physically divide an established community. This is considered no impact.

- Impact 4.1.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would not result in conflicts with relevant land use planning documents within and adjacent to the City of Pinole. This is considered a less than significant impact.

- Impact 4.1.3- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could create incompatibilities between existing and future land uses within the City of Pinole. This is considered a less than significant impact.

- Impact 4.1.4- When considered with existing, proposed, approved, and reasonably foreseeable development in the region, implementation of the proposed project has the potential to contribute to cumulative land use conditions, resulting in significant impacts to the physical environment. The proposed project would have a less than cumulatively considerable contribution to this impact.

Economic Impact Brief

A market analysis was prepared to assess the fiscal impacts of removal of an anchor retail development versus the addition of 223 units of housing to Pinole's inventory at the project site. The analysis concluded that the addition of the housing would have a net increase of 33 jobs, a net increase of $892,444 in state and local tax revenues, and an increase of $7,316,536 in gross revenues to local businesses from the increase in resident spending. K-Mart vacated the anchor site prior to 2020 and is no longer a viable tenant.

Project Consistency with the 2010 FEIR

4.1(a) (Physically Divide Community) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that the General Plan and Specific Plan create a refinement of the established urban form and allow for more intensive, concentrated development; implementation does not divide or separate a portion of the community. The Project is consistent with the projected land use (as amended by Ordinance No. 2018-02) of the site and involves development on privately-owned parcels. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.1(b) (Conflict with Land Use) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined impacts to be less than significant with implementation of General Plan policies. The Project site is within City limits and the proposed use is consistent with the land use for the site, with the use of a concession pursuant to the State Density Bonus Law. In consideration of the predominantly commercial design of surrounding buildings, the Project proposes floor-to-ceiling fenestration of communal use areas of the building including the lobbies, leasing office, club rooms, and fitness center to provide a coherent and consistent look to the ground floor of the building that will help the residential building to blend in with the neighboring land uses.

The Project is located on a previously developed site within the Pinole Vista Shopping center and contains an existing, vacant commercial building and associated improvements. The proposed multifamily residential development is a use permitted by right under the Pinole Municipal Code, Table 17,20,020-1.

As described above, the base density of the site allows for up to 178 units. The proposed project will rely on a Density Bonus that increases the allowed number of units to 223 units. The Project proposes seven percent of the base units for Very-Low-Income households and eight percent of the base units for Low Income households, through the provision of which the project is eligible for a 25 percent density bonus pursuant to the State Density Bonus Law, resulting in 45 density bonus units. The Project meets all zoning standards such as height and setbacks and is, therefore, requesting no waivers as allowed for under the State Density Bonus Law. The Project is relying for concession as provided in the State Density Bonus Law to eliminate the requirement for commercial uses onsite. Therefore, the Project is consistent with the State Density Bonus law, and the City's land use designation, zoning provisions, and not present any conflicts with land use regulations.

Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion

The Project would not result in any new or more severe impacts to land use relative to what was identified in the 2010 FEIR. The Project consists of development consistent with the land use as provided.

4.12. MINERAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

Sources: City of Pinole General Plan and EIR

General Plan and Specific Plan EIR Findings

The 2010 FEIR did not identify any known significant mineral resources of value to the region and residents of the state within the city.

Project Consistency with the 2010 FEIR

4.12(a-b) (Mineral Resources) No Change Relative to the 2010 FEIR: The City does not contain known significant mineral resources of value. As such, the Project would result in no impact to mineral resources. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion

The Project would not result in any new or more severe impacts to mineral resources relative to what was identified in the 2010 FEIR.

4.13. NOISE

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; and Noise and Vibration Assessment, prepared by Illingworth & Rodkin, October 25, 2021.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Noise in Chapter 4.5 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.5.1- The proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or of applicable standards of other agencies. However, the proposed Pinole General Plan Update's mitigating policies and actions ensure the impact will be less than significant. Therefore, noise impacts associated with the development and operation of land uses of the proposed General Plan Update would be less than significant.

- Impact 4.5.2- Construction activities associated with the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project and could result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or of applicable standards of other agencies. This impact would be considered less than significant.

- Impact 4.5.3- The proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project and could result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan, as a result of increased traffic on the roadway network. In addition, future development of noise-sensitive land uses could be exposed to roadway and/or railroad noise levels in excess of the City's noise standards. This impact would be considered potentially significant. With implementation of mitigation measures 4.5.3a and 4.5.3b, the impact would be less than significant.

- Impact 4.5.4- Sensitive land uses would not be exposed to aircraft noise in excess of applicable noise standards for land use compatibility. This is considered a less than significant impact.

- Impact 4.5.5- Subsequent development associated with the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in new noise-sensitive land uses encroaching upon existing or proposed stationary noise sources or new stationary noise sources encroaching upon existing or proposed noise-sensitive land uses. This could result in a substantial permanent increase in ambient noise levels in the project vicinity above existing levels or could result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance or of applicable standards of other agencies. As a result, this impact is considered potentially significant. With implementation of General Plan policies, the impact would be less than significant.

- Impact 4.5.6- The proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in exposure of persons to or generation of excessive groundborne vibration levels. As a result, this impact is considered potentially significant. With implementation of mitigation measures 4.5.6, the impact would be less than significant.

- Impact 4.5.7- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), in combination with other development in nearby areas in Contra Costa County, would increase transportation noise along area roadways as a result of concentrating high density residential and commercial activities along major corridors. This would be a cumulatively considerable impact that remains significant and unavoidable with mitigation. Resolution 2010-88 adopted a statement of overriding consideration for this significant and unavoidable impact citing economic and sustainability benefits and included the following rationale: 1) Locating residential projects adjacent to commercial development allows for greater pedestrian and bicycle access for those residents to commerce, employment opportunities, and transit which reduces vehicle trips and increases the sustainability of the community; and 2) Including residential uses along predominantly commercial corridors provides urban-level activity and potential patrons for existing and future commercial uses, conferring an economic benefit to the city.

Project Consistency with the 2010 FEIR

4.13(a) (Increase in Ambient Noise) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that implementation of the General Plan may have potentially significant impacts that could be reduced to less than significant with mitigation. The proposed Project consists of a multi-family residential development in the Appian Way corridor, consistent with the land use, zoning and State Density Bonus Law. Consistent with the 2010 FEIR mitigation measures 4.5.3a and 4.5.6, a project level noise study (**Appendix G**) was conducted that evaluates ambient noise conditions and provides recommendations to minimize potential noise conflicts.

Although the effect of ambient noise on the Project is not considered an environmental impact under CEQA, the Project is subject to condition of approval (COA) NOI-1, which requires noise insulation features in order to achieve the interior noise standard of 45 dBA (A-Weighted sound level), pursuant to mitigation measure 4.5.3a. In general, projects exposed to greater than 65 dBA and not exceeding 75 dBA day-night average sound level (DNL) require a minimum of 5 dB additional sound attenuation for buildings with noise-sensitive uses. Residential units proposed along the north façade of the proposed building, facing Fitzgerald Drive, would be exposed to future exterior noise levels up to 69 dBA DNL. Units located on the western and eastern façades of the proposed building would be partially shielded from traffic noise; however, exterior noise levels up to 66 dBA DNL are anticipated. Additionally, the unit-by-unit acoustical analysis required by COA NOI-1 will identify any units that will require additional sound attenuation measures to achieve the interior noise standard of 45 dBA.

Development introduced onsite will result in noise at operation, including from outdoor uses, HVAC and mechanical equipment, driveways, and parking areas. The greatest potential noise source generated by the proposed Project would be vehicular traffic. As concluded in the Noise Report, the addition of the proposed project trips to the existing traffic along Fitzgerald Drive would result in no measurable change to the existing traffic noise levels and concluded that impacts would be less than significant.

The proposed site plan shows that mechanical, electrical and plumbing rooms are located on the west side of the building and fully enclosed, which would ensure that mechanical equipment noise at operation would be undetectable offsite. Therefore, potential impact from a permanent increase in noise levels as result of Project operation would be less than significant. Furthermore, like any use within the City, the ongoing use at the Project would be subject to the noise regulations under Chapter 8.35 of the Pinole Municipal Code and any enforcement actions to remediate violations.

The 2010 FEIR concluded that construction activities could result in a substantial temporary or periodic increase in ambient noise levels, and that impacts would be less than significant. Due to the short-term nature of construction noise, the intermittent frequency, and required compliance with Municipal Code standards, the 2010 FEIR determined that construction noise level increases will not result in an increase in ambient noise levels in excess of applicable standards. During construction, the Project will result in a temporary noise increase from construction equipment, activities, and material deliveries. Construction activities and associated noise would be restricted by construction hours under Section 15.02.070 of the Pinole Municipal Code, which is intended to minimize nuisances due to construction noise and has a standard allowance of work from 7:00am to 5:00pm on weekdays that are non-federal holidays and from 9:00am to 6:00pm on Saturdays, provided that work is interior. Compliance with construction hours and best management practices to minimize noise during construction activities is imposed under COA NOI-1.

Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.13(b) (Groundborne Vibration) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts from groundborne vibrations could be potentially significant and would be reduced to less than significant levels with implementation of mitigation measure 4.5.6. The project level noise study included an analysis of Project related groundborne vibration in compliance with mitigation measure 4.5.6. The Project would not result in long-term and excessive groundborne vibration and groundborne noise once it is operational as residential use. During the course of construction, the Project may generate temporary and intermittent groundborne vibrations and noise through the operation of construction equipment, material hauling, and earthwork. The proposed project would not require pile driving, which can cause excessive vibration. The noise study determined that while groundborne vibration from Project construction may be perceptible, it is not expected to cause risk of building damage in the vicinity. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.13(c) (Airfield Noise) No Change Relative to the 2010 FEIR: The 2010 FEIR determined that noise impacts due to the proximity of an airfield would be less than significant. The city is not located within the vicinity of a private airstrip or an airport land use plan, nor is it within two miles of a public airport or public use airport. The nearest airports are the San Rafael Airport (approximately 12 miles west) and Buchanan Field Airport (approximately 13 miles east) of the city. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

MM 4.5.3a The following policy shall be incorporated into the Health and Safety Element under Goal HS.8: New development of noise-sensitive land uses will not be permitted in areas exposed to existing or planned transportation noise sources that exceed the levels specified in Policy HS.8.1 of the proposed General Plan Update unless the project design includes measures to reduce exterior and interior noise levels to those specified in Policy HS.8.1 of the proposed General Plan Update.

Status: Applicable. A project-specific noise study has been prepared and identifies ambient noise levels that exceed standards due to existing traffic noise on Fitzgerald Drive. To ensure that interior noise standards for new residents are achieved, and that the project does not introduce a potential conflict due to noise incompatibility, the Project is subject to Condition of Approval NOI-1, which requires sound-rated windows on facades with elevated noise levels, and that interior noise levels within individual units be verified by an acoustical analysis to identify

appropriate sound attenuation measures and that this be provided to the City prior to final of the building permit.

MM 4.5.3b The following policy shall be incorporated into the Health and Safety Element under Goal HS.8: Require site-specific noise studies for noise-sensitive projects which may be affected by railroad noise and incorporate noise attenuation measures into the project design to reduce any impacts.

Status: Not applicable. The Project is not located in the immediate vicinity to a railroad.

MM 4.5.6 The following mitigation shall be implemented as an action under Policy HS 8.1: Require the use of temporary construction noise control measures including the use of temporary noise barriers, temporary relocation of noise-sensitive land uses, or other appropriate measures as mitigation for noise generated during construction of public and/or private projects.

Status: Applicable. A project-specific noise study was prepared that identifies practicable noise reduction strategies, which are imposed and augmented as environmental conditions of approval NOI-2 set forth below.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to noise relative to what was identified the 2010 FEIR. The Project is in compliance with mitigation measure 4.5.3a and 4.5.6, through the project noise analysis, with implementation of the following recommendations in the noise report:

NOI-1: The following measures shall be incorporated to reduce interior noise levels to 45 dBA DNL or less at residential interiors:

1. Provide a suitable form of forced-air mechanical ventilation, as determined by the local building official, for all residential units on the project site, so that windows can be kept closed at the occupant's discretion to control interior noise and achieve the interior noise standards.
2. Residential units along the northern building façade should be provided with windows and doors having a minimum rating of 30 Sound Transmission Class (STC) and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL.
3. Residential units along the western and eastern building façades should be provided with windows and doors having a minimum rating of 28 STC and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL.
4. A qualified acoustical specialist shall conduct a unit-by-unit analysis of interior residential noise levels and recommend building treatments to reduce interior noise levels to 45 dBA DNL or less. Treatments would include, but are not limited to, sound-rated windows and doors, sound-rated wall and window constructions, acoustical caulking, protected ventilation openings, etc. Results of the analysis, including the description of the necessary noise control treatments, shall be submitted to the City, along with the building plans and approved design, prior to final of a building permit.

NOI-2: Construction activities including delivery and hauling shall comply with construction hours as provided under Pinole Municipal Code Section 15.02.070 and in accordance with construction best management practices for minimizing noise including:

1. Construction shall be limited to the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday, excluding holidays. Saturday work is allowed in commercial zones only, from 9:00 a.m. to 6:00 p.m., as long as it is interior work and does not generate significant noise. Any work outside of these hours by the construction contractors should require a special permit from

the City Manager. There should be compelling reasons for permitting construction outside of these designated hours.

2. Construct temporary noise barriers, where feasible, to screen adjoining land uses. Temporary noise barrier fences would provide a 5 dBA noise reduction if the noise barrier interrupts the line-of-sight between the noise source and receptor and if the barrier is constructed in a manner that eliminates any cracks or gaps.
3. The contractor shall use “new technology” power construction equipment with state-of-the-art noise shielding and muffling devices. All internal combustion engines used on the project site shall be equipped with adequate mufflers and shall be in good mechanical condition to minimize noise created by faulty or poorly maintained engines or other components.
4. The unnecessary idling of internal combustion engines shall be prohibited.
5. Staging areas and stationary noise-generating equipment shall be located as far as possible from noise-sensitive receptors.
6. Ensure that generators, compressors, and pumps are housed in acoustical enclosures.
7. Locate cranes as far from adjoining noise-sensitive receptors as possible.
8. Substitute nail guns for manual hammering and electrically powered tools for noisier pneumatic tools, where feasible.
9. A “noise disturbance coordinator” shall be designated to respond to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaints (e.g., beginning work too early, bad muffler, etc.) and institute reasonable measures warranted to correct the problem. A telephone number for the disturbance coordinator would be conspicuously posted at the construction site.

4.14. POPULATION AND HOUSING

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Population and Housing in Chapter 4.2 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.2.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in slight population, housing, and employment increases within the Planning Area.

- Impact 4.2.2- Subsequent land use activities associated with implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would not result in the displacement of substantial numbers of housing units and/or persons. This is a less than significant impact.

- Impact 4.2.3- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would not result in substantial population, housing, and employment increases in Contra Costa County and the Bay Area. This is less than cumulatively considerable.

Project Consistency with the 2010 FEIR

4.14(a) (Induced Substantial Growth). No Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts from induced substantial population growth would be less than significant. The Project is consistent with the planned development potential analyzed in the 2010 FEIR. As an infill development, the Project is located within a developed environment served by existing infrastructure. The 2010 FEIR indicated directing growth toward infill and redevelopment sites in areas close to existing transit, retail, jobs, infrastructure, and other amenities would reduce the potential environmental impacts of growth in the city. The Project proposes 223 residential units, which is within the projected 1,076 units for the Specific Plan corridors analyzed in the 2010 FEIR, and more specifically the projected 633 units within the Appian Way corridor. Since the adoption of the General Plan and Specific Plan, the city has experienced substantial development of residential units in the Specific Plan corridors – to date only one other residential project has been approved, the Appian Village Project with 214 unit, but has not yet been constructed. The Project would introduce a higher density residential development consistent with the increased residential development as planned for the Three Corridors Specific Plan, the General Plan, and as provided through the State Density Bonus law. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

4.14(b) (Displacement). No Change Relative to the 2010 FEIR: The 2010 FEIR determined that impacts from displacement would be less than significant. The General Plan and Specific Plan have designated areas for the

development of housing in the Appian Way Corridor and throughout the city, with the intent to increase the amount and variety of housing opportunities. The Project involves the development of new housing units without demolishing existing housing units or causing displacement. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion

The Project would not result in any new or more severe impacts to population and housing relative to what was identified in the 2010 FEIR. The Project consists of development consistent with the projected growth under the General Plan and Specific Plan.

4.15. PUBLIC SERVICES

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	☐	☐	☒	☐
Fire Protection?	☐	☐	☒	☐
Police Protection?	☐	☐	☒	☐
Schools?	☐	☐	☒	☐
Parks?	☐	☐	☒	☐
Other public facilities?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Public Services and Utilities in Chapter 4.12 including the Three Corridors Specific Plan area and determined the following:

Fire Protection

- Impact 4.12.1.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) could result in increased demand for fire protection and emergency medical services within the GPU Planning Area. This is a less than significant impact.

- Impact 4.12.1.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), along with other planned development and redevelopment within the GPU Planning Area, would contribute to the cumulative demand for fire protection and emergency medical services. This is less than cumulatively considerable impact.

Law Enforcement Services

- Impact 4.12.2.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in increased demand for law enforcement services within the GPU Planning Area. This is a less than significant impact.

- Impact 4.12.2.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), along with other planned development and redevelopment within the GPU Planning Area, would contribute to the cumulative demand for law enforcement services. This is less than cumulatively considerable impact.

Public Schools

- Impact 4.12.3.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase student enrollment within the WCCUSD and may require new school facilities and related services. This is a less than significant impact.

- Impact 4.12.3.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), as well as potential development within the cumulative setting area, would result in cumulative public school impacts. These public school impacts are less than cumulatively considerable.

Park and Recreational Facilities

- Impact 4.12.4.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase the demand for existing facilities and require additional parks and recreational facilities. This is a less than significant impact.

- Impact 4.12.4.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), in combination with other reasonably foreseeable development, would require additional park and recreation facilities within the GPU Planning Area. This would be less than cumulatively considerable.

Project Consistency with the 2010 FEIR

4.15(a) (Public Services) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that, with policies set forth in the General Plan, public services impacts would be less than significant. Given the focus on infill development and the compact urban form in the General Plan and Specific Plan, the 2010 FEIR determined impacts to emergency response times would be less than significant. Fire and Police services share the Public Safety Building located at 880 Tennent Avenue. The typical automobile travel time between this location (City Hall) and the Project site is approximately six minutes. The 2010 FEIR analyzed the impacts of intensification of development under the General Plan and the Three Corridors Specific Plan on emergency services response times. Development intensification is expected to generally increase traffic and therefore increase the likelihood of conflicts with existing emergency response and/or emergency evacuation plans by making emergency response activities more difficult and increasing response times. However, the 2010 FEIR concluded that there is a less than significant impact on emergency services because development activities would include roadway improvements to ensure adequate access and traffic management.

General Plan policies CS.2.1 and CS.2.3.5 call for 5-minute response times from the Police Department and the Fire Department. Police and Fire vehicles travel more swiftly than typical vehicles using sirens and bypassing traffic lights, and therefore Fire and Police services are expected to be able to reach the site with adequate response times. The only roadway improvement implemented by the project will be an adjacent pedestrian crossing of Fitzgerald Drive. The Project will not negatively impact the emergency response times to the area. Therefore, Police and Fire services are expected to be able to reach the site with adequate response times.

The 2010 FEIR determined that General Plan buildout would increase demand for Fire and Emergency response services but indicated that agencies would receive a portion of funding from property taxes and development impact fees. Impacts to Fire and Emergency services and response were determined to be less than significant and be less than cumulatively considerable. Similarly, impacts on Police services were determined to be less than significant and less than cumulatively considerable by the 2010 FEIR, which found that no new or expanded facilities were needed to maintain service and funding from property taxes on new development would be received as development occurs. Upon review of the proposed development plans for the Pinole Vista Project, the Fire and Police Departments did not indicate concerns about response times or the capacity to provide services to the Project. New development projects are subject to the payment of development impact fees to fund the incremental increase in demand for services. The Project is subject to development impacts fees and is consistent with the development potential analyzed in the 2010 FEIR. As such, the Project would not result in an impact more significant than the less than significant impact identified

in the 2010 FEIR.

The Project, as a multifamily residential development, could potentially create direct impacts on educational services provided by schools. The 2010 FEIR determined that impacts associated with increased student enrollment to schools would be less than significant. The 2010 FEIR also determined that the cumulative impacts of General Plan buildout to schools would be less than cumulatively considerable. The determination indicated that new schools planned within the West Contra Costa Unified School District (WCCUSD) would have the capacity to accommodate future development. Additionally, development would be subject to payment of school fees to mitigate potential impacts. WCCUSD monitors development in the district and assesses school fees on new residential and commercial development to fund facility improvements. Confirming the payment of school fees is a standard part of the building permit process. As a multi-family residential development, the Project would be subject to development impact fees. Therefore, the Project would result in less than significant impacts to schools consistent with the determination made in the 2010 FEIR.

The increase in demand for parks and recreational facilities associated with population growth and development was considered in the 2010 FEIR. The Project is consistent with the projected build out analyzed in the General Plan and Specific Plan EIR, which determined impacts to existing parks and recreational resources would be less than significant and cumulative impacts would be less than cumulatively considerable. As described in 4.16 Recreation, new residents would have access to existing parks and recreational facilities in the City of Pinole, and the Project is subject to development impact fees to fund maintenance, acquisition, and development of City of Pinole facilities. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion

The Project would not result in any new or more severe impacts to public services relative to what was identified in the 2010 FEIR. The Project consists of development consistent with the General Plan and Specific Plan and would offset potential incremental increase in the use of services through required development impact fees.

4.16. RECREATION

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; and the City of Pinole Recreation Department, Park and Facilities, accessed May 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to recreational parks and facilities in Chapter 4.12, Public Services and Utilities and determined the following:

- Impact 4.12.4.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase the demand for existing facilities and require additional parks and recreational facilities. This is a less than significant impact.

- Impact 4.12.4.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), in combination with other reasonably foreseeable development, would require additional park and recreation facilities within the GPU Planning Area. This would be less than cumulatively considerable.

Project Consistency with the 2010 FEIR

4.16(a-b) (Deterioration of Parks, Additional Recreational Facilities) No Change Relative to the 2010 FEIR: The Project is not expected to result in substantially more significant impacts to parks or recreational facilities as compared to the impacts analyzed in the 2010 FEIR. Pinole contains a total of 14 parks. One of these parks, the Canyon Drive Park (0.5 acres), is located approximately 0.5 miles to the northeast of the Project site. Additionally, East Bay Regional Park District (EBRPD) manages approximately 95,000 acres of open space and preserves providing regional amenities to Pinole residents, including access to the San Francisco Bay Trail.

New residents introduced by the Project would increase use of surrounding parks and recreational facilities. While the anticipated increase would be consistent with the expected use generated by the Three Corridors Specific Plan, increased use by the residents of the proposed development on existing local and regional Parks is not expected to cause substantial or accelerated physical deterioration However, the City of Pinole periodically updates the Recreation Park and Facility Master Plan in accordance with General Plan Action CS.1.3.4 to monitor the condition of recreational facilities and ensure community needs are adequately addressed. Pursuant to Action CS.3.1.1 the Master Plan is used to identify areas that underserved by recreation facilities and identify opportunity sites that may satisfy existing and projected park and recreation needs. The Project is in compliance with Action CS3.4.3, which directs that the Recreation Department review development proposals. The Recreation Department was routed the development proposal and determined that existing park and recreation facilities were adequate to meet recreational demands of the Project. Additionally, the Project, would include two courtyards for passive outdoor recreation of residents including gathering spaces, a fire pit, recreational lawn, BBQ areas, and bench seating. Furthermore, the Project includes an onsite fitness room for

active recreation and a club room. As a multi-family development, the Project is also subject to Development Impact Fees, levied by the City per Resolution No. 2018029/4-3-2018 or as subsequently amended, which are used to fund maintenance, acquisition, and development of Pinole parks and recreational facilities.

Potential impacts to recreational facilities within the City of Pinole as a result of new development have been identified and analyzed under the 2010 FEIR, which concludes that build out will have a less than significant impact on recreational facilities. Population growth as a result of the Project is within the growth anticipated in the General Plan and the Three Corridors Specific Plan. Therefore, the Project would not put further pressure on recreational amenities thereby requiring construction or expansion of such facilities relative to what was analyzed in the 2010 FEIR. The Project would likely increase the use of existing neighborhood and regional parks such that physical deterioration of facilities could occur or be accelerated. However, the Project is subject to Development Impact Fees that would fund maintenance among acquisition, and development of Pinole parks and recreational facilities Therefore, impacts related to the increased use, deterioration, construction, or expansion of recreational facilities are not expected to be substantially new or more severe relative to the 2010 FEIR as a result of the proposed Project.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion and Environmental Conditions of Approval

The Project would not result in any substantially new or more severe impacts to recreation relative to what was identified in the 2010 FEIR. The Project consists of residential development anticipated by the Three Corridors Specific Plan and General Plan Update overall and will be subject to all applicable Development Impact Fees including the Parks and Recreation fee.

4.17. TRANSPORTATION

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Technical Advisory on Evaluating Transportation Impacts in CEQA, prepared by the State of California Governor's Office of Planning and Research, December 2018; Traffic Analysis, prepared by W-Trans, dated January 27, 2022; Vehicle Miles Traveled Evaluation, prepared by W-Trans, dated August 27, 2021; and Draft Transportation Demand Management Plan, prepared by W-Trans, dated February 2, 2022.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Traffic and Circulation in Chapter 4.4 including the Three Corridors Specific Plan area and determined the following:

- Impact 4.4.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in an increase in freeway mainline volumes during the AM and PM peak hours. This is considered a significant impact and remains significant and unavoidable with mitigation. Resolution 2010-88 adopted a statement of overriding consideration citing economic and sustainability benefits as follows: 1) Locating residential projects adjacent to commercial development allows for greater pedestrian and bicycle access for those residents to commerce, employment opportunities, and transit which reduces vehicle trips and increases the sustainability of the community; and 2) Including residential uses along predominantly commercial corridors provides urban-level activity and potential patrons for existing and future commercial uses, conferring an economic benefit to the city.

- Impact 4.4.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in an increase in volume to capacity (v/c) ratios and a decrease in LOS on study intersections during the AM and PM peak hours. This is considered a potentially significant impact and is reduced to less than significant with modification to the LOS policy allowing for LOS F standard within Old Town.

- Impact 4.4.3- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would conflict with the multimodal transportation service objectives (MTSOs) identified in the West County Action Plan. This is considered a significant impact and is remains significant and unavoidable with mitigation. Resolution 2010-88 adopted a statement of overriding consideration citing a sustainability benefit and included the following rationale: Locating residential projects along commercial corridors allows for greater access to commerce, employment opportunities, and transit which reduces vehicle trips and increases the sustainability of the community.

- Impact 4.4.4- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in changes to the circulation network. However, the changes would not increase hazards due to design features or incompatible uses. This is considered a less than significant impact.

- Impact 4.4.5- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in an increase in vehicular traffic and changes to the roadway network, which may potentially increase emergency access conflicts. This is considered a less than significant impact.

- Impact 4.4.6- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would support continued and expanded transit use, bicycling, and walking throughout the city, although changes to the roadway network may potentially affect bus operations. This is considered a less than significant impact.

- Impact 4.4.7- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would result in cumulative transportation impacts. This impact is cumulatively considerable and is reduced to less than cumulatively considerable with mitigation.

- Impact 4.4.8- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would conflict with the multimodal transportation service objectives (MTSOs) identified in the West County Action Plan. This impact is cumulatively considerable and remains significant and unavoidable with mitigation. Resolution 2010-88 adopted a statement of overriding consideration for this significant and unavoidable impact citing a sustainability benefit and included the following rationale: Locating residential projects along commercial corridors allows for greater access to commerce, employment opportunities, and transit which reduces vehicle trips and increases the sustainability of the community.

- Impact 4.4.9- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) in combination with pending or approved major projects within the city as well as consideration of regional activities, would result in changes to the circulation network. The changes are not anticipated to increase hazards due to design features or incompatible uses. This impact is less than cumulatively considerable.

- Impact 4.4.10- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) in combination with pending or approved major projects within the city as well as consideration of regional activities, would result in an increase in vehicle traffic and changes to the roadway network, which may potentially increase emergency access conflicts. This impact is less than cumulatively considerable.

- Impact 4.4.11- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) in combination with pending or approved major projects within the city as well as consideration of regional activities, would support continued and expanded transit use, bicycling, and walking throughout the city, although changes to the roadway network may potentially affect bus operations. This impact is cumulatively considerable and with mitigation is reduced to less than cumulatively considerable.

Level of Service to Vehicle Miles Traveled

Level of service (LOS) has historically been used as a standard measure of traffic service within the City of Pinole. Pursuant to SB 743, as of July 1, 2020, lead agencies are required to evaluate transportation impacts of a project using a Vehicle Miles Traveled (VMT) metric, which focuses on balancing the needs of congestion management with statewide goals related to infill development, promotion of public health through increased active transportation facilitated by closer proximity to alternative travel modes and reduces greenhouse gas emissions.

In December 2018, the California Governor's Office of Planning and Research (OPR) published the Technical Advisory on Evaluating Transportation Impacts in CEQA, which provides recommendations for evaluating a project's transportation impact using a VMT metric, thresholds of significance, and mitigation measures. Pursuant to Government Code Section 15064.3(b), lead agencies have discretion to select the most appropriate methodology for evaluating a project's VMT impacts. To date (May 2022) the City of Pinole has not adopted VMT thresholds or guidelines. In the absence of locally adopted thresholds at the time of review of the proposed Project, the City of Pinole is relying upon recommendations set forth in OPR's Technical Advisory. The Advisory provides qualitative thresholds for which projects are considered to have characteristics that will not result in significant VMT impacts and are therefore not required to conduct transportation analyses. Examples of project types that screen out from additional VMT impact analysis include projects that are consistent with the applicable Sustainable Communities Strategy (SCS) and do not exceed a level of 15 percent existing VMT per capita, which may be measured as regional VMT per capita or as city VMT per capita.

Vehicle Miles Traveled (VMT) Screening Analysis
In accordance with SB 743, a VMT Screening Analysis was completed for the Project (**Appendix H-1**). Senate Bill (SB) 743 established a change in the metric to be applied for determining traffic impacts associated with development projects. The project-related VMT impacts were assessed based on guidance provided by the California Governor's Office of Planning and Research (OPR) in the publication Transportation Impacts (SB 743) CEQA Guidelines Update and Technical Advisory, 2018.

Transportation Demand Management Plan
A draft Transportation Demand Management Plan (TDM) was prepared by W-Trans (**Appendix H-2**) which details measures to be undertaken by the Pinole Vista Project during operation and carried out by a designated Transportation Coordinator staff person to promote a reduction in vehicle trips. The measures described are intended to increase usage of transit services, increase incidence of carpooling, and increase the rate at which residents choose to walk or bike.

Project Consistency with the 2010 FEIR

4.17(a) (Conflicts with Plans, Policies, Ordinances) No Substantial Change Relative to the 2010 FEIR: The 2010 FEIR concluded that the General Plan Update, Three Corridors Specific Plan, and Zoning Code Update would conflict with the multimodal transportation service objectives (MTSOs) identified in the West County Action Plan and that impact would be significant and unavoidable.

The Project is consistent with the land use designation established through the Three Corridors Specific Plan, and as provided through the State Density Bonus Law. The Traffic Analysis (**Appendix H)** estimates that the Project would be expected to generate an average of 1,213 trips per day, including 80 trips during the a.m. peak hour (between 7:00-9:00 am) and 98 trips during the p.m. peak hour (between 4:00-6:00 pm). This represents a net 877 daily trip decrease from the previous department store use, with a 27-trip net increase in AM peak and 80 trip net decrease in PM peak trips. The Project's Traffic Analysis indicates that overall, the study intersections, as described in the Traffic Analysis, and Project driveways operate at mid-LOS D or better under existing plus Project conditions. Per the City of Pinole's level of service (LOS) standards, the minimum desired service level for intersections located on Fitzgerald Drive is LOS D. Therefore, the Project will not conflict with the City's LOS policy.

The Three Corridors Specific Plan identifies roadway improvements on Appian Way. The closest of these improvements to the Project site are proposed on Appian Way between Mann Drive and Dalessi Lane and include a five to six-foot bicycle lane and two 11-foot travel lanes in each direction with a median/turn lane.

The Project would not conflict with the plans for bicycle lanes on Appian Way and would be subject to the City's development impact fees as well as the development fee for the West County Subregional Transportation Mitigation Program (STMP) for proportional contribution towards the improvements listed in the Three Corridors Specific Plan. Environmental condition of approval (COA) TRAN-1 incorporates the requirement for proportional contribution towards the improvements as listed above and identified in the Three Corridors Specific Plan.

The 2010 FEIR imposed mitigation measure 4.4.11 which is relevant to this project. Mitigation measure 4.4.11 directs the city to work with transit to construct additional bus turnouts along Pinole roadways including Fitzgerald Drive. Correspondence with WestCAT indicated that bus turnouts are Fitzgerald Drive are sufficient

to provide adequate transit access and requested that bus stops be upgraded to shelters. The Project site is served by Transit via West Contra Costa Transit Authority (WestCAT) Route 16 on weekdays and Route 19 on Saturday, and by Alameda Contra Costa Transit District (AC Transit) Bus Route 70 all day throughout the week and Route 376 at nights throughout the week. WestCAT Route 16 and Route 19 provide fixed-route bus services in the cities of Hercules and Pinole and serve stops on both sides of Fitzgerald Lane at Pinole Vista Shopping Center in which the Project is located. AC Transit Route 70 provides fixed route bus services to the cities of El Sobrante, Pinole, Richmond, and San Pablo. AC Transit Route 376 provides service to the cities of El Cerrito, Richmond, North Richmond, Pinole, and San Pablo. Both AC Transit bus routes serve stops at the Pinole Vista Shopping Center. WestCAT Route JPX which also serves the Project site on weekday off-peak times is currently out of service. The Project proposes to retrofit three adjacent bus stops into covered bus shelters to improve comfort, convenience, and access to bus transit proximity to the Project site.

As such, the Project will not result in new or more severe impacts beyond those analyzed in the 2010 FEIR by way of increasing VMT impacts.

4.17(b) (Conflict with 15064.3(b) VMT) No Substantial Change Relative to the 2010 FEIR: Following adoption of the General Plan, Specific Plan, and Zoning Code Updates, and certification of the 2010 FEIR, SB 743 went into effect, changing how transportation impacts must be evaluated under CEQA. Under SB 743, lead agencies are required to evaluate transportation impacts of a project using a VMT metric which focuses on balancing the needs of congestion management with statewide goals.

Absent locally adopted VMT thresholds, the City of Pinole is relying upon the Technical Advisory for Evaluating VMT issued by the Office of Planning Research. As provided in the Technical Advisory, several types of land use projects screen out from the need for further VMT analysis if certain criteria are met. Residential project generating vehicle travel that is 15 or more percent below the existing countywide residential VMT per capita may indicate a less than significant VMT impact. Data from the Contra Costa Transportation Authority (CCTA) 2020 travel demand model indicates that the county has a baseline average residential VMT of 17.3 miles per capita. 15 percent of 17.3 miles per capita is 14.7 miles per capita. The Project is located in a traffic analysis zone (TAZ 10190) with a baseline VMT per capita of 13.6 miles, which is less than the VMT screening threshold of 14.7 miles per capita. Therefore, consistent with OPR's VMT Advisory it can be determined that the Project will not conflict with CEQA Guidelines section 15064.3, subdivision (b).

Nonetheless, in an effort to minimize VMT for all new development projects, in accordance with Action SE.7.8.1, COA TRAN-5 requires a project-level Transportation Demand Management (TDM) Plan to be prepared and submitted to the Development Services Department for review and approval prior to issuance of the certificate of occupancy. The draft TDM Plan prepared for the Project (**Appendix H-2**) details four measures including: 1) a transit pass subsidy; 2) a ridesharing program; 3) an education, outreach, and marketing initiative; and 4) a bikeshare program. The TDM Plan measures are estimated to reduce trips by 5.7% with the greatest reductions coming from the transit pass subsidy (2.4% reduction) and the education, outreach, and marketing initiative (2.3% reduction).

As such, the Project will not result in new or more severe impacts beyond those analyzed in the 2010 FEIR by way of conflicting with local plans, policies, and ordinances.

4.17(c) (Geometric Design Feature Hazard) No Substantial Change Relative to the 2010 FEIR: The FEIR concluded that transportation and circulation improvements would be implemented over time and would be designed and constructed consistent with local, regional, and federal standards and as such would result in less than significant impacts related to a geometric design features or incompatible uses.

Access to the Project will be provided via two existing driveways from Fitzgerald Drive on the north portion of the site. Internal circulation on the site will occur via 27 to 29 foot wide drive aisles in the reconfigured parking lot that will provide access to 275 vehicle parking stalls.

The Project would be required to comply with the public realm standards and design guidelines established in the Three Corridors Specific Plan. Consistent with Policy 1 (safe and efficient movement of people and goods) and Policy 2 (road and intersection improvements to consider pedestrian and traffic safety) of the Three Corridors Specific Plan, the Project is subject to COA TRAN-2 which requires that signage, trees, and landscaping elements within a clear vision triangle, including driveways and street intersections, maintain clear

sight lines at heights between two and one-half feet and seven feet, pursuant to Pinole Zoning Code Section 17.98.020.

The Project's Traffic Analysis (**Appendix H**) recommends reconstruction of the westerly driveway to the Project site such that it is at grade with Fitzgerald Drive as opposed to the existing condition which exhibits a steep slope. COA TRAN-3 requires reconstruction of the westerly driveway to the Project site such that it is at grade with Fitzgerald Drive to improve sightlines.

Within the project vicinity, sidewalks are present along both sides of Fitzgerald Drive, including along the Project site frontage. Internal pedestrian walkways proposed on the Project site would connect to the existing pedestrian facilities on Fitzgerald Drive. Additionally, the Project proposes a pedestrian connection, in the southern portion of the site, between the proposed development and the existing pedestrian walkway in front of the commercial buildings of the Pinole Valley Shopping Center east of the site. As such, on-site pedestrian facilities serving the project site would be adequate.

The Project's Traffic Impact Study (**Appendix H**) recommends off-site improvements to the unsignalized pedestrian cross walk at the intersection of Fitzgerald Drive and the easterly driveway to the Project for pedestrian safety. These recommended improvements include a pedestrian-refuge median island along with high visibility continental markings and yield line striping with a flashing "Yield Here to Pedestrian" sign. COA TRAN-4 requires these improvements at the intersection of the easterly driveway to the Project and Fitzgerald Drive.

As such, the Project will not result in new or more severe impacts beyond those analyzed in the 2010 FEIR by way of introducing a hazardous design feature.

4.17(d) (Emergency Access) No Substantial Change Relative to the 2010 FEIR: The FEIR concluded that impacts related to emergency access would be less than significant as individual development projects are required to be reviewed for compliance with emergency access standards set forth by the City's public safety officials. During construction activities, temporary lane closures on Fitzgerald Drive are expected to occur during frontage improvements and utility work that will be coordinated with Fire, Police, and emergency responders to ensure that through access in maintained and adequate response times are achievable as discussed in Section 4.15(a).

The Project's circulation plan has been reviewed by the Fire and Public Works Departments. Site circulation was determined to be adequate, including sufficient turning radii and drive aisle widths to allow for fire truck access to the proposed project. Therefore, emergency vehicle access would be adequate under the proposed project and there would be no new or more severe impacts related to emergency access as a result of project implementation relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

MM 4.4.11 Work with WestCAT and AC Transit to construct additional bus turnouts along the following Pinole Roadways: San Pablo Avenue, Pinole Valley Road, Appian Way & Fitzgerald Drive.

Status: Applicable. The City should coordinate with AC Transit and WestCAT to identify any needed improvements to transit facilities serving Fitzgerald Drive and intent and timing to resume WestCAT route JPX.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to traffic and circulation including transportation relative to what was identified the 2010 FEIR. As conditioned, the Project would be generally consistent with the Three Corridors Specific Plan by introducing identified improvements and by maintaining adequate emergency access. The following environmental conditions of approval are imposed in compliance with the Three Corridors Specific Plan:

TRAN-1: Prior to the issuance of Building Permit, the applicant shall provide the Project's fair share contribution as established by the City towards multi-modal improvements in the Project vicinity as identified in the Three Corridors Specific Plan.

TRAN-2: To maintain adequate sight lines at the project driveways, pursuant to Pinole Municipal Code Section 17.98.020, signage, trees, and other landscaping features within the clear vision triangle at driveway and street intersections shall be maintained such that visibility is maintained between thirty (30) inches and seven (7) feet. The applicant shall be responsible for maintaining adequate sight lines from the project driveways, on-street parking on Fitzgerald Drive is prohibited, and vegetation shall be trimmed to about one foot in height on the west sides of the driveways.

TRAN-3: Prior to final occupancy, the applicant shall reconstruct the westerly driveway to the Project site such that it is at grade with Fitzgerald Drive to improve sightlines.

TRAN-4: Prior to final occupancy, the applicant shall construct a pedestrian-refuge median island along with high visibility continental markings, yield line striping, and a flashing "Yield Here to Pedestrian" sign at the intersection of the easterly driveway to the Project and Fitzgerald Drive.

TRAN-5: Prior to issuance of the certificate of occupancy, a final Transportation Demand Management Plan shall be provided to the Development Services Department for review and approval. The TDM Plan shall include example materials that will be used to educate residents about the programs, designate a staff position as the Transportation Coordinator, and detail the program implementation schedule which should commence with occupation of the building.

4.18. TRIBAL CULTURAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	☐	☐	☒	☐
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, prepared by Trachtenberg Architects, dated June 27, 2022; Archaeological Survey Report, prepared by Alta Archeological Consulting, October 2021; and AB 52 Notification issued by the City of Pinole January 5, 2022.

According to Public Resources Code (PRC) Section 21074, tribal cultural resources are defined as follows:

1. Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
    a. Included or determined to be eligible for inclusion in the California Register of Historical Resources; or
    b. Included in a local register of historical resources as defined in PRC Section 5020.1(k).
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying the criteria set forth in PRC Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe.
3. A cultural landscape that meets the criteria of PRC Section 21074(a) to the extent that the landscape is geographically defined in terms of the size and scope of the landscape.
4. A historical resource described in PRC Section 21084.1, a unique archaeological resource as defined in PRC Section 21083.2(g), or a “non-unique archaeological resource” as defined in PRC Section 21083.2(h), if it conforms with the criteria of PRC Section 21074(a).

In accordance with PRC Section 21080.3.1(d), the City of Pinole provided written formal notification to the tribes below on January 5, 2022, which included a brief description of the proposed Project and its location, the City of Pinole contact information, and a notification that the Tribes have 30 days to request consultation. Notified tribal organizations include:

- The Ohlone Indian Tribe

- Amah Mutsun Tribal Band of Mission San Juan Bautista
- North Valley Yokuts Tribe
- The Confederated Villages of Lisjan
- Guidiville Indian Rancheria
- Indian Canyon Mutsun Band of Costanoan
- Nashville Enterprise Miwok-Maidu-Nishinam Tribe
- Chicken Ranch Rancheria of Me-Wuk Indians
- Muwekma Ohlone Indian Tribe of the SF Bay Area
- Tule River Indian Tribe
- Wilton Rancheria
- Wuksache Indian Tribe/Eshom Valley Band

The City received a request to consult from The Confederated Villages of Lisjan on January 20, 2022. The City responded to the consultation request and provided the Tribe with materials and information, as well as draft conditions regarding training, treatment, and monitoring for buried archaeological and tribal cultural resources. Those conditions have been imposed on the project. No other responses from tribes or individual have been received requesting consultation.

General Plan and Specific Plan EIR Findings

As discussed above in Section 4.5 (Cultural Resources), the 2010 FEIR concluded that the project would (General Plan Update and Three Corridor Specific Plan) result in potentially significant impacts related to the discovery of buried cultural resources, which may include tribal cultural resources.

Project Consistency with the 2010 FEIR

4.18(a) (Listed or Eligible for Listing) No Substantial Change Relative to the 2010 FEIR: As described in 4.5 Cultural Resources, the Archaeological Assessment including a database review, records search, and archeological site survey to evaluate the site for recorded evidence of cultural resources, yielded negative results. However, ground surface visibility being poor or non-existent for a majority of the Project site due to hardscaped surfaces limited the effectiveness of the onsite survey for resources. Demolition and ground-disturbing activities from project development could result in potentially significant impacts to buried tribal resources eligible for listing if present. Environmental conditions of approval TCUL-1 will be imposed on the Project in compliance with mitigation measure 4.10.1b and 4.10.1c incorporated in the 2010 FEIR. Therefore, the Project would not result in new or more severe impacts relative to the 2010 FEIR as it relates to a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k).

4.18(b) (Significant Resources) No Substantial Change Relative to the 2010 FEIR: As described above, the City of Pinole provided notification of the Project to tribes and tribal organizations on January 5, 2022, consistent with AB 52. On January 20, 2022, the City received a formal request for consultation from The Confederated Villages of Lisjan tribe. The City proceeded with tribal consultation and provided draft environmental conditions of approval regarding training, monitoring, and treatment of buried archaeological and tribal cultural resources to The Confederated Villages of Lisjan tribe. Those conditions are imposed via TCUL-1. No other requests to enter into consultation were received on the Pinole Vista Project. Therefore, condition TCUL-1 is set forth below and includes presence of a approved monitor during excavation and initial earthwork and follow up with the tribe in the event that a resource or potential resource is encountered during construction.

As identified in the 2010 FEIR, archeological resources are prevalent in the Pinole area and have the potential to be encountered during build out of the Specific Plan. The Project site has a potential to contain buried tribal cultural resources that may be unearthed during construction. As such, development within the Project site has the potential to result in impacts to buried tribal cultural resources if encountered during construction. COA TCUL-1, set forth below, ensures that environmental conditions of approval set forth under the Cultural Resources discussion above are implemented. COA TCUL-1 provides for the protection of buried cultural resources, including tribal cultural resources, in the event of discovery. Therefore, the proposed Project would not result in new or more severe impacts relative to the 2010 FEIR.

Applicable 2010 FEIR Mitigation Measures

See Section 4.5 above, which identifies mitigation measures 4.10.1a, 4.10.1b, and 4.10.1c as set forth in the 2010 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to archaeological resource, including tribal cultural resources, relative to what was identified the 2010 FEIR. The Project has complied with measure 4.10.1a through the preparation of a project specific Historic Evaluation and an Archaeological Assessment, which identifies recommendations, imposed as environmental conditions of approval.

TCUL-1: To protect buried Tribal Cultural Resources that may be encountered during construction activities, the Project shall implement environmental COA CUL-1 and COA CUL-2.

4.19. UTILITIES AND SERVICE SYSTEMS

Would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☐	☒
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Sources: City of Pinole General Plan/Specific Plan and EIR; Plan Set, Utility Plan, prepared by Adobe Associates, Inc., Sheets C3.0, 3.1, dated March 22, 2021; and Stormwater Control Plan, prepared by Adobe Associates, Inc., March 2021.

General Plan and Specific Plan EIR Findings

The 2010 FEIR evaluated potential impacts to Public Services and Utilities in Chapter 4.12 including the Three Corridors Specific Plan area and determined the following:

Water Supplies/Infrastructure

- Impact 4.12.5.1- Implementation of the General Plan Update, Three Corridors Specific Plan, and Zoning Code Update would require additional water supplies, as well as additional water supply infrastructure, to meet the projected water demands. This is considered a less than significant impact.

- Impact 4.12.5.2- Implementation of the General Plan Update and its associated project components would contribute to the cumulative demand for water supply and associated infrastructure in EBMUD's service area. This is less than cumulatively considerable with the associated General Plan policies and actions, as well as Specific Plan standards and guidelines.

Wastewater

- Impact 4.12.6.1- Implementation of the General Plan Update, Three Corridors Specific Plan, and Zoning Code Update would increase wastewater flows and demand for sanitary sewer facilities. Increased flows could exceed the capacity of the wastewater conveyance, treatment, and disposal

systems at the City of Pinole Public Works Department and the West County Wastewater District. This is considered a less than significant impact.

- Impact 4.12.6.2- Implementation of the General Plan Update, Three Corridors Specific Plan, and Zoning Code Update could result in wastewater discharge that would exceed wastewater treatment requirements of the San Francisco Bay Regional Water Quality Control Board. This is considered a less than significant impact.

- Impact 4.12.6.3- Implementation of the General Plan Update, Three Corridors Specific Plan, and Zoning Code Update as well as existing, planned, proposed, approved, and reasonably foreseeable development in the City of Pinole Public Works Department and West County Wastewater District wastewater service areas, would increase wastewater flows and required additional infrastructure and treatment capacity to accommodate the anticipated demands. This proposed project's construction to this impact is considered to be less than cumulatively considerable.

Solid Waste

- Impact 4.12.7.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would increase solid waste generation and the demand for related services. This is considered a less than significant impact.

- Impact 4.12.7.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update), along with other existing, planned, proposed, approved, and reasonably foreseeable development within the West Contra Costa Integrated Waste Management Authority service area, would result in cumulative solid waste impacts. This is considered a less than cumulatively considerable impact.

Energy and Communication

- Impact 4.12.8.1- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) would require additional electric and natural gas supplies, along with conveyance facilities for these and telephone and cable television services. This is considered a less than significant impact.

- Impact 4.12.8.2- Implementation of the proposed project (General Plan Update, Three Corridors Specific Plan, and Zoning Code Update) as well as potential development in the surrounding areas, would result in an increase in cumulative utility service demands. The proposed project would have a less than cumulatively considerable impact on electrical, natural gas, telephone, and cable television services.

Project Consistency with the 2010 FEIR

4.19(a) (Relocation/Expansion of Utilities) No Change Relative to the 2010 FEIR: The FEIR concluded that buildout of the Three Corridors Specific Plan would increase demands for utilities and services systems including water, wastewater, storm drain, and energy and communications infrastructure and impacts would be less than significant. The subject Project is generally consistent with the Three Corridors Specific Plan and will not necessitate the expansion or relocation of existing utilities. The proposed Project would introduce 223 dwelling units, providing multi-family housing, which will generate demand for utilities and services. The site vicinity is well served by existing utilities, including water, wastewater, electricity, natural gas, telecommunication, cable, and storm drain infrastructure, which will be extended onsite to provide services to residents.

The existing drainage system drains to the south and outfalls in Wildcat Creek. As indicated in the Project's Stormwater Control Plan (**Appendix F**), the Project proposes bioretention facilities throughout the site designated to receive all on-site runoff for treatment and infiltration before being discharged into the City's municipal storm drain system. Each of these facilities will be designed and constructed to the Costa County Clean Water Program, Stormwater C.3 Guidebook criteria.

Demand for utilities and service systems generated by the Project is anticipated by the 2010 FEIR and does not require the relocation or expansion of infrastructure. Therefore, the Project's impacts related to the relocation, construction, or expansion of utilities will not result in new or more severe impacts relative to the 2010 FEIR.

4.19(b) (Sufficient Water Supplies) No Substantial Change Relative to the 2010 FEIR: The FEIR concluded that the Project would result in additional demands for water supplies and infrastructure and impacts would be less than significant.

The Pinole Vista Project will utilize water obtained from the municipal water system to meet onsite water demands. East Bay Municipal Utility District (EBMUD) provides water to the Project site. Water to the site is provided via the existing municipal water system and will be conveyed to the Project through a water line on the site that connects to the potable water main within the Fitzgerald Drive right-of-way.

The Project proposes residential development, within the residential capacity analyzed in the 2010 FEIR, which determined that the City's water supplies are sufficient to meet the needs of Pinole during normal, dry, and multiple dry years. In accordance with Action GM2.2.1 verification by EBMUD is required for approval of new development to ensure that adequate water supply and quality can be provided. This is imposed through environmental condition of approval (COA) UTIL-1 set forth below. Therefore, impacts due to insufficient water supplies or inadequate entitlements would not result in new or more severe impacts relative to those identified in the 2010 FEIR.

4.19(c) (Wastewater Capacity) No Substantial Change Relative to the 2010 FEIR: The FEIR concluded that buildout of the Three Corridors Specific Plan would increase wastewater flows and demand for sanitary sewer facilities and impacts would be less than significant. The City of Pinole provides sanitary sewer service to the Project site via an existing service line located within the Fitzgerald Drive right-of-way. The Project includes installation of a sanitary sewer pipe to collect wastewater from the Project and discharge to the existing sanitary sewer infrastructure for conveyance, treatment, and processing.

As a project that is generally consistent with the Three Corridoes Specific Plan, the increase in wastewater generated by the Project is within the flow capacity analyzed as part of the 2010 FEIR. Furthermore, as a multi-family development, the Project is subject to Development Impact Fees, including a wastewater fee, which is used to fund maintenance and expansion of wastewater conveyance systems and treatment facilities. In accordance with mitigation measure 4.12.6.2 adequate wastewater capacity shall be demonstrated prior to issuance of Certificate of Occupancy. This is imposed through environmental COA UTIL-2 set forth below. As such, the proposed project will not cause or exceed wastewater treatment requirements set forth by the Regional Water Quality Control Board, nor will the project necessitate the expansion or construction of wastewater conveyance or treatment facilities. Therefore, impacts to wastewater capacity would not result in new or more severe impacts relative to those identified in the 2010 FEIR.

4.19(d,e) (Solid Waste Generation/Compliance with Solid Waste Management) No Substantial Change Relative to the 2010 FEIR: The FEIR concluded that development resulting from buildout of the General Plan Update and Three Corridors Specific Plan would increase solid waste generation and the demand for related services and impacts would be less than significant. The proposed Project will contribute to the generation of solid waste within the Three Corridors Specific Plan area, as anticipated by the 2010 FEIR. The Project applicant is required to adhere to all regulations governing the disposal of solid waste.

Republic Services provides solid waste collection services for recycling and waste disposal. Although the waste stream generated by the Project is expected to increase during construction and operation, it is not expected to exceed landfill capacity and is not expected to result in violations of federal, state, and local statutes and regulations related to solid waste. In accordance with General Plan Action CS.8.1.3 construction sites shall provide for the salvage, reuse or recycling of construction and demolition materials. This is imposed through environmental COA UTIL-3 set forth below. Pursuant to Action SE.5.1.2 improve and expand curbside recycling services; the Project is subject to environmental COA UTIL-4 and UTIL-5 set forth below. Therefore, the disposal of solid waste resulting from project construction and operation would not result in new or more severe impacts relative to those identified in the 2010 FEIR.

2010 FEIR Mitigation Measures

MM 4.12.6.2 The City shall include an action in the General Plan requiring all future development to demonstrate that there is sufficient sewer/wastewater treatment capacity to accommodate the proposed development and that the required sewer/wastewater infrastructure is in place before issuance of Certificate of Occupancy. Furthermore, all on-site and off-site sewer conveyance systems shall be in place prior to the issuance of Certificate of Occupancy and all financing shall be assured to the satisfaction of the City.

Status: Applicable. The project was considered as part of the Sewer Master Plan Update, currently in process, which indicated adequate facilities would be in place or expanded as necessary to accommodate the project with payment of required impact fees. Pursuant to this measure, the project is subject to Condition of Approval UTIL-2, which requires procurement of a will serve letter, verification of unique connections, and payment of development impact fees.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to utilities and service systems, relative to what was identified the 2010 FEIR. The Project is subject to environmental conditions of approval pursuant to mitigation identified in the 2010 FEIR and General Plan Actions as follows:

UTIL-1: Pursuant to Action GM 2.2.1 Service Standards, prior to issuance of a building permit, the applicant shall secure verification from EBMUD that adequate water supplies are available to serve the project and prior to issuance of occupancy the applicant shall demonstrate that all EBMUD water efficiency requirements have been fulfilled.

UTIL-2: Pursuant to MM 4.12.6.2, the project shall secure a can and will serve letter demonstrating that there is sufficient sewer/water treatment and conveyance capacity prior to issuance of Certificate of Occupancy. The proposed project shall have a unique connection to the public sewer collection system. The connection to the sewer system will require a permit from the City of Pinole, the payment of sewer user fees, and payment of a sewer connection fee prior to the issuance of building permits.

UTIL-3: Pursuant to General Plan Action CS.8.1.3 and in accordance with current CalGreen Building Code requirements, a Construction Waste Management Plan shall be prepared and implemented during all stages of construction. The Construction Waste Management Plan shall meet the minimum requirements of the CalGreen code for residential development including but not limited to regional material sourcing (A5.405.1), Bio-based materials (A5.105.2), Reused materials (A5.405.3), and materials with a recycled content (A5.405.4).

UTIL-4: In accordance with CalGreen Section 4.410.2 onsite recycling shall be provided in readily accessible areas for the depositing, storage and collection of non-hazardous materials including at a minimum paper, cardboard, glass, plastics, organic waste, and metals.

UTIL-5: The applicant shall coordinate with Republic Services to appropriately size trash enclosures and ensure that maximum waste stream diversion occurs by providing onsite pre-sorting for recyclables and greenwaste for compostable and organic materials as available.

4.20. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR; and Contra Costa County Local Hazard Mitigation Plan, January 2018.

General Plan and Specific Plan EIR Findings

The 2010 FEIR addressed wildfire risk in Chapters 4.8 and 4.13. The General Plan discusses Wildland Fire Hazards in Chapter 9, Health and Safety, and the Contract Costa County Local Hazard Mitigation Plan includes a wildfire risk assessment.

During wildfire events residents are exposed to direct effects of the wildfire, such as the loss of structures, and to the secondary effects of the wildfire, such as smoke and air pollution. Smoke generated by wildfire consists of emissions that contain particulate matter (soot, tar, water vapor, and minerals) and gases (carbon monoxide, carbon dioxide, nitrogen oxides). Public health impacts associated with wildfires include difficulty in breathing, odor, and reduction in visibility.

Due to the urban development pattern of Pinole and surrounding jurisdictions, wildfire risk is relatively low within the Appian Way corridor of the Three Corridors Specific Plan including the Project site. Areas of the City that are most susceptible to wildfire hazards are located east of Appian Way, south of Interstate 80 at the City/County boundary. This area is designated as “Very High Fire Hazard Severity Zone” (VHFHSZ) within a State Responsibility Area by CAL FIRE.

Project Consistency with the 2010 FEIR

4.20(a) (Impair Emergency Plans) No Change Relative to the 2010 FEIR: The Project is limited to the construction and operation of a multi-family residential development on a site at a density planned for in the Three Corridors Specific Plan. During construction activities, temporary lane closures on Fitzgerald Drive can be expected to occur during frontage improvements and utility work that will be coordinated with Fire, Police, and emergency responders to ensure that through access in maintained and adequate response times are achievable. There are no elements of the project that would impair emergency response or evacuation routes. Therefore, the proposed Project is not expected to substantially impair an adopted emergency response plan or emergency evacuation plan and there would be no change in impacts relative to the 2010 FEIR.

4.20(b-d) (Wildfire Risk Exacerbation, Infrastructure Contributing to Wildfire Risk, Exposure to Wildfire-Related Risks) No Change Relative to the 2010 FEIR: The Project site is generally flat with the exception of steep slopes along the site's southeastern boundary. Very High Fire Hazard Severity Zone in Local Responsibility Area (LRA) is located approximately 2,300 feet to the east of the Project site, across Appian Way. New structures onsite would be built according to the latest California Building Code, which contains fire prevention standards for building materials, systems, and assemblies used in the exterior design and construction of new buildings. The Project would not change the risk for wildlife relative to the findings of the 2010 FEIR. Therefore, the project would not exacerbate risks due to the uncontrolled spread of a wildfire, pollutant concentrations from a wildfire, post-fire slope instability, or post-fire flooding.

The Project site is surrounded by highly urbanized development. The site is categorized as a Non-VHFHZ by CAL FIRE and surrounded by land designated as Non-VHFHZ on all sides. The vicinity is generally developed with urban land uses and is not adjacent to areas where there is a wildland urban interface fire hazard. As such, the Project would not have impacts related to exposure of people or structures to a significant risk of loss, injury, or death involving fires. Therefore, impacts due to wildfire risk are not expected to be new or more severe relative to the 2010 FEIR as a result of the proposed Project.

Applicable 2010 FEIR Mitigation Measures

There are no applicable 2010 FEIR mitigation measures to this Project.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts due to wildfire risk relative to what was identified the 2010 FEIR. The Project consists of development within a Non-VHFHZ that is required to comply with the latest building code including fire safety standards for new construction.

4.21. MANDATORY FINDINGS OF SIGNIFICANCE

	New Significant Impact Not Identified in 2010 FEIR	More Severe Impact Relative to 2010 FEIR	No Substantial Change Relative to 2010 FEIR	No Change Relative to the 2010 FEIR
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number, or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☐	☒
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☐	☒
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☐	☒

Sources: City of Pinole General Plan/Specific Plan and EIR.

General Plan and Specific Plan EIR Findings

As presented above in Sections 4.1 through 4.20, the 2010 FEIR included an evaluation of cumulative impacts associated with implementation of the General Plan and the Three Corridors Specific Plan.

Project Consistency with the 2010 FEIR

4.21(a) (Degrade the Environment) No Change Relative to the 2010 FEIR: The Project is located within the Three Corridors Specific Plan boundary and potential impacts associated with its development have been anticipated by the City's General Plan and analyzed in the 2010 FEIR. The Project is consistent with the General Plan Land Use designation, goals, policies, and programs, as well as the Land Use Development Standard and Private Realm Design Guidelines set forth in the Three Corridors Specific Plan.

As described herein, the proposed Project has the potential to result in environmental impacts primarily associated with temporary construction activities and environmental conditions of approval have been identified that avoid, reduce, or offset impacts consistent with the 2010 FEIR. This analysis identifies requirements and includes environmental conditions of approval to address applicable regulations related to suitable habitat and special-status species. With implementation of conditions of approval related to Biological Resources and Cultural Resources, as well as adherence to the City's uniformly applied development standards, the Project's potential to degrade the quality of the environment would be substantially the same as those identified in the 2010 FEIR. As such, the Project will not degrade the quality of the environment, reduce habitat, or affect cultural resources beyond what has already been disclosed and analyzed in the certified 2010 FEIR.

4.21(b) (Cumulatively Affect the Environment) No Change Relative to the 2010 FEIR: The CEQA Guidelines define cumulative impacts as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. The individual effects may be changes resulting from a single project or increase in environmental impacts. The cumulative impact from

several projects is the change in the environment which results from the incremental impact of the proposed project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time" (Guidelines, Section 15355(a)(b)).

The analysis of cumulative impacts for each environmental factor can employ one of two methods to establish the effects of other past, current, and probable future projects. A lead agency may select a list of projects, including those outside the control of the agency, or alternatively, a summary of projections. These projections may be from an adopted general plan or related planning document or from a prior environmental document that has been adopted or certified; these documents may describe or evaluate the regional or area-wide conditions contributing to the cumulative impact.

Cumulative impacts are evaluated using the 2010 FEIR as discussed throughout this document. Development of the proposed Project, in combination with past, present, and future development in the city, would result in less than cumulatively considerable impacts to Visual Resources (aesthetics), Air Quality/Greenhouse Gases, Biological Resources, Cultural Resources, Geology and Soils, Hydrology and Water Quality, Land Use, Public Services, Population and Housing, and Transportation. Cumulative long-term impacts from development within the city were identified and analyzed in the 2010 FEIR including implementation of the Three Corridors Specific Plan. Cumulatively considerable impacts as identified in the 2010 FEIR would occur to air quality/greenhouse gases (ozone and particulate matter), transportation, and transportation-related noise.

The Project will contribute to cumulative impacts identified in the 2010 FEIR. As described in **Sections 4.1 – 4.20,** development of the Project would not result in new or more severe impacts relative to those identified in the 2010 FEIR. The Project is subject to applicable mitigation measures and General Plan Actions imposed as environmental conditions of approval. Implementation of identified conditions of approval as well as uniformly applied development standards would ensure that development of the proposed Project would not result in cumulatively considerable environmental impacts beyond those addressed in the 2010 FEIR.

4.21(c) (Substantial Adverse Effect on Humans) No Change Relative to the 2010 FEIR: The Project would not result in any new or more substantial adverse effects on humans relative to the 2010 FEIR findings for the General Plan and the Three Corridors Specific Plan, within which the Project is located. With implementation of mitigation measures and General Plan action items imposed as environmental conditions of approval, the Pinole Vista Project will not result in new or more severe impacts beyond those identified in the 2010 FEIR that would directly or indirectly impact human beings onsite or in the Project vicinity.

Applicable 2010 FEIR Mitigation Measures

No applicable mitigation measures beyond those identified in Section 4.1 through 4.20 above.

Conclusion and Environmental Conditions of Approval

With uniformly applied development standards, mitigation measures imposed as environmental conditions of approval, and standard regulatory requirements, the Project would not result in any new or more severe impacts relative to what was identified the 2010 FEIR.

5. REFERENCE DOCUMENTS

The following reference documents are hereby incorporated by reference and are available for review during normal business hours at the City of Pinole, 2131 Pear Street, in the Community Development Department.

5.1. TECHNICAL APPENDICES

A. 1500 Fitzgerald Drive Residential Development Air Quality and Greenhouse Gas Assessment, prepared by Illingworth & Rodkin, October 25, 2021.

B. Biological Constraints Assessment for ROIC Pinole Vista Mixed Use Project, prepared by WRA Environmental Consultants, October 26, 2021.

B-1. Tree Survey Report for ROIC Pinole Vista Mixed Use Project, prepared by WRA Environmental Consultants, June 14, 2022.

C. Archaeological Survey Report, prepared by ALTA Archaeological Consulting, October 2021

D. Geotechnical Investigation, prepared by Rockridge Geotechnical, April 2022.

E. Phase 1 Environmental Site Assessment Report, prepared by Partner Engineering and Science, Inc., February 3, 2022.

F. Stormwater Control Plan, prepared by Adobe Associates, Inc., March 2021.

G. 1500 Fitzgerald Drive Residential Development Noise and Vibration Assessment, prepared by Illingworth & Rodkin, October 25, 2021.

H. Revised Traffic Analysis for the Pinole Vista Project, prepared by W-Trans, January 27, 2022.

H-1. Vehicle Miles Traveled Evaluation for the Pinole Vista Project, prepared by W-Trans, August 27, 2021.

H-2. DRAFT Pinole Vista Transportation Demand Management Plan, prepared by W-Trans, February 2, 2022.

5.2. OTHER DOCUMENTS REFERENCED

1. 2019 California Green Building Standards Code (CalGreen), Effective January 1, 2020.
2. BAAQMD 2017 Bay Area Clean Air Plan, prepared by the Bay Area Air Quality Management District, April 2017.
3. BAAQMD Recommended Methods for Screening and Modeling Local Risks and Hazards, prepared by the BAAQMD, May 2011.
4. California Environmental Quality Act Air Quality Guidelines, prepared by the Bay Area Air Quality Management District, May 2017.
5. California Scenic Highway Mapping System, Scenic Highway System Lists, 2019. https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways, accessed August 2021.
6. City Council Resolution 2018-02. City of Pinole. June 19, 2018.
7. Contra Costa County Local Hazard Mitigation Plan, January 2018.
8. National Flood Hazard Layer. FEMA. August 2021. https://www.fema.gov/flood-maps/national-flood-hazard-layer

9. Parking Study for the Pinole Vista Shopping Center, prepared by W-Trans, May 25, 2022.

10. Pinole Vista Apartments: An Economic Impact Brief, prepared by Marin Economic Consulting, July 13, 2022.

11. Technical Advisory on Evaluating Transportation Impacts in CEQA, prepared by the State of California Governor's Office of Planning and Research, December 2018

12. Tsunami Hazard Area Map. California Department of Conservation. https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps

13. Fire Hazard Maps, Office of the State Fire Marshal, November 12, 2021, Osfm.fire.ca.gov

14. California Department of Conservation Farmland Mapping and Monitoring.

15. Urban Water Management Plan 2020 East Bay Municipal Utility District, Water Resources Planning Division EBMUD, June 2021.

6. ENVIRONMENTAL CONDITIONS OF APPROVAL

The following conditions of approval have been identified through this analysis and ensure implementation of applicable mitigation measures and policies set forth in the General Plan, Three Corridors Specific Plan and their EIR.

AES-1: The applicant shall ensure, and the City shall verify that the final lighting plan incorporates applicable requirements set forth in Chapter 17.46 of the Pinole Municipal Code, including that all outdoor lighting fixtures be designed, shielded, aimed, located, and maintained to shield adjacent properties and to not provide glare onto adjacent properties or roadways.

AQ-1: During all construction activities including demolition and ground disturbance activities, on and offsite, the contractor shall implement the latest BAAQMD recommended Best Management Practices (BMPs) to control for fugitive dust and exhaust as follows:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material shall be covered.
3. All visible mud and dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as practicable. Building pads shall be laid as soon as practicable after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper working condition prior to operation.
8. A publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints shall be posted on the project site prior to the initiation of construction activities. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

AQ-2: High-efficiency particulate filtration systems shall be installed in residential heating, ventilation, and air-conditioning (HVAC) systems for residences within the Project. An ongoing maintenance plan for the buildings' HVAC air filtration system shall be required and may include the following:

1. Ensure that the use agreement and other property documents: (1) require cleaning, maintenance, and monitoring of the affected buildings for air flow leaks, (2) include assurance that new owners or tenants are provided information on the ventilation system, and (3) include provisions that fees associated with owning or leasing a unit(s) in the building include funds for cleaning, maintenance, monitoring, and replacements of the filters, as needed.

BIO-1: To avoid and minimize potential impacts to nesting birds including passerines and raptors, the following measures shall be implemented:

1. Grading or removal of potentially occupied habitat should be conducted outside the nesting season, which occurs between approximately February 1 and August 31.
2. If grading between August 31 and February 1 is infeasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird survey (migratory species, passerines, and raptors) of the potentially occupied habitat (trees, shrubs, grassland) shall be performed by a qualified biologist within 7 days of groundbreaking. If no nesting birds are observed no further action is required and grading shall occur within one week of the survey to prevent "take" of individual birds that could begin nesting after the survey.
3. If active bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the occupied habitat until the young have fledged, as determined by a qualified biologist.
4. The radius of the required buffer zone can vary depending on the species, (i.e., 75-100 feet for passerines and 200-500 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with CDFW.
5. To delineate the buffer zone around the occupied habitat, construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude.
6. Biological monitoring of active nests shall be conducted by a qualified biologist to ensure that nests are not disturbed and that buffers are appropriate adjusted by a qualified biologist as needed to avoid disturbance.
7. No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed.

BIO-2: Prior to any tree removal or alteration, the applicant shall obtain approval from the City of Pinole to implement a plan for tree preservation and replacement in accordance with the City's Tree Removal Permit. Replacement of protected trees onsite shall either consist of planting or replacement trees onsite as part of the development over and above the landscaping that would otherwise be required at a value equal to the value of the protected trees that will be removed, or through the payment of an in-lieu fee to the City in an amount equal to the value of the protected trees that will be removed.

CUL-1: To ensure the Project does not result in impacts to buried archaeological resources onsite, if present, the following shall be implemented:

1. **Training**. Prior to commencement of ground-disturbing activities, a professional archaeologist shall conduct a preconstruction training for construction personnel. The training shall familiarize individuals with the potential to encounter prehistoric artifacts or historic-era archaeological deposits, the types of archaeological material that could be encountered within the Project Area, and the requirement for a monitor to be present during initial ground-disturbing activities.
2. **Monitoring**. During initial ground disturbing activities on native soils, a Secretary of the Interior-qualified archeologist shall be onsite to monitor activities. The monitor shall have the authority to temporarily halt work to inspect areas as needed for potential cultural materials or deposits. Daily monitoring logs shall be completed by the monitor.

3. **Post-review Discoveries**. In the event that cultural resources are exposed during construction, all earth work occurring within 100 feet of the find shall be immediately stopped until a Secretary of Interior-qualified Archaeologist inspects the material(s), assess historical significance, consults with Tribes and other stakeholders as needed, and provides recommendations for the treatment of the discovery.

4. **Archaeological Monitoring Report**. Within 60 days following completion of construction work, an archeological monitoring report shall be submitted to the City. The report shall include the results of the monitoring program (even if negative), a summary of any findings or evaluation/data recovery efforts, and supporting documentation (e.g., daily monitoring logs).

CUL-2: In the event that human remains are encountered within the Project Area during Project-related, ground-disturbing activities, all work must stop, and the County Coroner immediately notified of the discovery. If the County coroner determined that remains are, or are believed to be Native American, then the Native American Heritage Commission must be contacted by the Coroner so that a "Most Likely Descendant" (MLD) can be designated to provide further recommendations regarding treatment of the remains. A Secretary of Interior-qualified Archaeologist should also evaluate the historical significance of the discovery, the potential for additional human remains to be present, and to provide further recommendations for treatment of the resource in accordance with the MLD recommendations. Federal regulations require that Native American human remains, funerary objects, and object of cultural patrimony are handed consistent with the requirement of the Native American Graves Protection and Repatriation Act.

GEO-1: The applicant shall incorporate the recommendations of the Project Geotechnical Report prepared by Rockridge Geotechnical (April 13, 2022) into construction drawings. Prior to issuance of a grading permit, the City shall review and accept the Geotechnical Report and verify that the Report provides adequate information for construction detail including detailed drainage, earthwork, foundation, and pavement recommendations. Final grading plan, construction plans, and building plans shall demonstrate that recommendations set forth in the geotechnical reports and/or to the satisfaction of the City Engineer/Chief Building Official have been incorporated into the design of the project.

Nothing in this condition of approval shall preclude the City Engineer and/or Chief Building Official from requiring additional information to determine compliance with applicable standards. The geotechnical engineer shall inspect the construction work and shall certify to the City, prior to issuance of a certificate of occupancy that the improvements have been constructed in accordance with the geotechnical specifications.

GEO-2: Prior to issuance of a grading permit, an erosion control plan along with grading and drainage plans shall be submitted to the City Engineer for review. The project shall comply with stormwater management requirements and guidelines established by Contra Costa County under the Contra Costa Clean Water Program Stormwater C.3 Guidebook and incorporate Contra Costa County best management practices for erosion and sediment control for construction. All earthwork, grading, trenching, backfilling, and compaction operations shall be conducted in accordance with the City's Erosion Control requirements, Chapter 15.36.190 of the Municipal Code. Plans shall detail erosion control measures such as site watering, sediment capture, equipment staging and laydown pad, and other erosion control measures to be implemented during all construction activity.

GEO-3: Should any potentially unique paleontological resources (fossils) be encountered during development activities, work shall be suspended within 50 feet of the discovery and the City of Pinole Planning Division of the Development Services Department shall be immediately notified. At that time, the City will coordinate any necessary investigation of the discovery with a qualified paleontologist. The Project proponent shall be required to implement any mitigation

necessary for the protection of paleontological resources. The City and the Project applicant shall consider the mitigation recommendations of the qualified paleontologist for any unanticipated discoveries. The City and the Project applicant shall consult and agree upon implementation of a measure or measures that the City and project applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures.

HAZ-1: Prior to issuance of any demolition, grading, or building permit, the applicant shall submit a report resulting from a comprehensive asbestos survey and, if asbestos containing materials (ACM) are identified onsite, plans for safe removal. If ACM are verified, the applicant shall prepare an Operations and Maintenance (O&M) Safety Plan and receive approval of the O&M Plan by the City of Pinole Fire Department. The purpose of the O&M Plan is to establish protocol for the removal and disposal of ACM and shall also address the potential for accidental discovery of hazards and hazardous materials during construction activities including lead-based paints and groundwater contamination. Said plans shall be implemented during demolition and construction activities including the following:

a) Use appropriate site control measures such as wet methods to minimize airborne dust generation.

b) Identify construction worker protection plan for handing ACM.

c) Characterize material export and proper disposal requirements.

d) Notification requirements to the Bay Area Air Quality Management District in accordance with the Asbestos Demolition and Renovation Program requirements.

HAZ-2: The Project applicant shall implement the following Best Management Practices (BMPs) regarding potential soil hazards:

a) Soil generated by construction activities shall be stockpiled onsite in a secure and safe manner or if designated for off-site disposal at a permitted facility, the soil shall be loaded, transported, and disposed of in a safe and secure manner. All contaminated soils determined to be hazardous or non-hazardous waste must be adequately profiled (sampled) prior to acceptable reuse or disposal at an appropriate off-site facility. Specific sampling and handling and transport procedures for reuse or disposal shall be in accordance with applicable local, state, and federal laws, the Regional Water Quality Control Board (RWQCB), the Contra Costa Environmental Health Services Department, and the City of Pinole.

b) Groundwater pumped from the subsurface shall be contained onsite in a secure and safe manner, prior to treatment and disposal, to ensure environmental and health issues are resolved pursuant to applicable laws and policies of the City of Pinole, the RWQCB and/or Contra Costa Environmental Health Services Department.

HYD-1: Prior to issuance of a building permit, the applicant shall prepare a design-level Stormwater Management Plan that incorporates stormwater management requirements and best management practices, per Pinole Municipal Code Chapter 8.20 and Contra Costa County Clean Water Program requirements, including the Contra Costa Clean Water Program Stormwater C.3 Guidebook and demonstrates that the storm drain system has adequate capacity to serve the project. The Stormwater Management Plan shall be reviewed and accepted by the City Engineer.

HYD-2: Prior to issuance of a grading permit, the applicant shall file a Notice of Intent with the RWQCB and demonstrate compliance with the Statewide General Permit for Construction Activities.

In accordance with the National Pollution Discharge Elimination System (NPDES) regulations, the applicant shall prepare and implement a project-specific Stormwater Pollution Prevention Plan, including an erosion control plan, for grading and construction activities. The SWPPP shall address erosion and sediment control during all phases of construction, storage and use of fuels, and use and clean-up of fuels and hazardous materials. The SWPPP shall designate locations where fueling, cleaning and maintenance of equipment can occur and shall ensure that protections are in place to preclude materials from entering into storm drains. The contractor shall maintain materials onsite during construction for containments and clean-up of any spills. The applicant shall provide approval documentation from the RWQCB to the City verifying compliance with NPDES.

NOI-1: The following measures shall be incorporated to reduce interior noise levels to 45 dBA DNL or less at residential interiors:

1. Provide a suitable form of forced-air mechanical ventilation, as determined by the local building official, for all residential units on the project site, so that windows can be kept closed at the occupant's discretion to control interior noise and achieve the interior noise standards.
2. Residential units along the northern building façade should be provided with windows and doors having a minimum rating of 30 Sound Transmission Class (STC) and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL.
3. Residential units along the western and eastern building façades should be provided with windows and doors having a minimum rating of 28 STC and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL.
4. A qualified acoustical specialist shall conduct a unit-by-unit analysis of interior residential noise levels and recommend building treatments to reduce interior noise levels to 45 dBA DNL or less. Treatments would include, but are not limited to, sound-rated windows and doors, sound-rated wall and window constructions, acoustical caulking, protected ventilation openings, etc. Results of the analysis, including the description of the necessary noise control treatments, shall be submitted to the City, along with the building plans and approved design, prior to final of a building permit.

NOI-2: Construction activities including delivery and hauling shall comply with construction hours as provided under Pinole Municipal Code Section 15.02.070 and in accordance with construction best management practices for minimizing noise including:

1. Construction shall be limited to the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday, excluding holidays. Saturday work is allowed in commercial zones only, from 9:00 a.m. to 6:00 p.m., as long as it is interior work and does not generate significant noise. Any work outside of these hours by the construction contractors should require a special permit from the City Manager. There should be compelling reasons for permitting construction outside of these designated hours.
2. Construct temporary noise barriers, where feasible, to screen adjoining land uses. Temporary noise barrier fences would provide a 5 dBA noise reduction if the noise barrier interrupts the line-of-sight between the noise source and receptor and if the barrier is constructed in a manner that eliminates any cracks or gaps.
3. The contractor shall use "new technology" power construction equipment with state-of-the-art noise shielding and muffling devices. All internal combustion engines used on the project site shall be equipped with adequate mufflers and shall be in good mechanical

condition to minimize noise created by faulty or poorly maintained engines or other components.

4. The unnecessary idling of internal combustion engines shall be prohibited.
5. Staging areas and stationary noise-generating equipment shall be located as far as possible from noise-sensitive receptors.
6. Ensure that generators, compressors, and pumps are housed in acoustical enclosures.
7. Locate cranes as far from adjoining noise-sensitive receptors as possible.
8. Substitute nail guns for manual hammering and electrically powered tools for noisier pneumatic tools, where feasible.
9. A “noise disturbance coordinator” shall be designated to respond to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaints (e.g., beginning work too early, bad muffler, etc.) and institute reasonable measures warranted to correct the problem. A telephone number for the disturbance coordinator would be conspicuously posted at the construction site.

TRAN-1: Prior to the issuance of Building Permit, the applicant shall provide the Project’s fair share contribution as established by the City towards multi-modal improvements in the Project vicinity as identified in the Three Corridors Specific Plan.

TRAN-2: To maintain adequate sight lines at the project driveways, pursuant to Pinole Municipal Code Section 17.98.020, signage, trees, and other landscaping features within the clear vision triangle at driveway and street intersections shall be maintained such that visibility is maintained between thirty (30) inches and seven (7) feet. The applicant shall be responsible for maintaining adequate sight lines from the project driveways, on-street parking on Fitzgerald Drive is prohibited, and vegetation shall be trimmed to about one foot in height on the west sides of the driveways.

TRAN-3: Prior to final occupancy, the applicant shall reconstruct the westerly driveway to the Project site such that it is at grade with Fitzgerald Drive to improve sightlines.

TRAN-4: Prior to final occupancy, the applicant shall construct a pedestrian-refuge median island along with high visibility continental markings, yield line striping, and a flashing “Yield Here to Pedestrian” sign at the intersection of the easterly driveway to the Project and Fitzgerald Drive.

TRAN-5: Prior to issuance of the certificate of occupancy, a final Transportation Demand Management Plan shall be provided to the Development Services Department for review and approval. The TDM Plan shall include example materials that will be used to educate residents about the programs, designate a staff position as the Transportation Coordinator, and detail the program implementation schedule which should commence with occupation of the building.

TCUL-1: To protect buried Tribal Cultural Resources that may be encountered during construction activities, the Project shall implement environmental COA CUL-1 and COA CUL-2.

UTIL-1: Pursuant to Action GM 2.2.1 Service Standards, prior to issuance of a building permit, the applicant shall secure verification from EBMUD that adequate water supplies are available to serve the project and prior to issuance of occupancy the applicant shall demonstrate that all EBMUD water efficiency requirements have been fulfilled.

UTIL-2: Pursuant to MM 4.12.6.2, the project shall secure a can and will serve letter demonstrating that there is sufficient sewer/water treatment and conveyance capacity prior to issuance of

Certificate of Occupancy. The proposed project shall have a unique connection to the public sewer collection system. The connection to the sewer system will require a permit from the City of Pinole, the payment of sewer user fees, and payment of a sewer connection fee prior to the issuance of building permits.

UTIL-3: Pursuant to General Plan Action CS.8.1.3 and in accordance with current CalGreen Building Code requirements, a Construction Waste Management Plan shall be prepared and implemented during all stages of construction. The Construction Waste Management Plan shall meet the minimum requirements of the CalGreen code for residential development including but not limited to regional material sourcing (A5.405.1), Bio-based materials (A5.105.2), Reused materials (A5.405.3), and materials with a recycled content (A5.405.4).

UTIL-4: In accordance with CalGreen Section 4.410.2 onsite recycling shall be provided in readily accessible areas for the depositing, storage and collection of non-hazardous materials including at a minimum paper, cardboard, glass, plastics, organic waste, and metals.

UTIL-5: The applicant shall coordinate with Republic Services to appropriately size trash enclosures and ensure that maximum waste stream diversion occurs by providing onsite pre-sorting for recyclables and greenwaste for compostable and organic materials as available.

Attachment B

TECHNICAL APPENDICES

(Click on the links to jump to the appendix section)

A. 1500 Fitzgerald Drive Residential Development Air Quality and Greenhouse Gas Assessment

B. Biological Constraints Assessment for ROIC Pinole Vista Mixed Use Project

B-1. Tree Survey Report for ROIC Pinole Vista Mixed Use Project

C. Archaeological Survey Report

D. Geotechnical Investigation

E. Phase 1 Environmental Site Assessment Report

F. Stormwater Control Plan

G. 1500 Fitzgerald Drive Residential Development Noise and Vibration Assessment

H. Revised Traffic Analysis for the Pinole Vista Project

H-1. Vehicle Miles Traveled Evaluation for the Pinole Vista Project

H-2. DRAFT Pinole Vista Transportation Demand Management Plan

Appendix A

1500 FITZGERLAD DRIVE RESIDENTIAL DEVELOPMENT AIR QUALITY & GREENHOUSE GAS ASSESSMENT

Pinole, California

October 25, 2021

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I&R Project#: 21-148

Introduction

The purpose of this report is to address the air quality, community health risk, and greenhouse gas (GHG) impacts associated with the proposed residential development located at 1500 Fitzgerald Drive in Pinole, California. The air quality impacts and GHG emissions from this project would be associated with the demolition of the existing uses at the site, construction of the new building and infrastructure, and operation of the project. Air pollutant and GHG emissions associated with construction and operation of the project were predicted using appropriate computer models. In addition, the potential project health risk impact (including construction and operation) and the impacts of existing toxic air contaminant (TAC) sources affecting the nearby existing and proposed sensitive receptors were evaluated. This analysis addresses those issues following the guidance provided by the Bay Area Air Quality Management District (BAAQMD).[1]

Project Description

The 5.93-acre project site is currently occupied by a vacant 91,342 square-foot (sf) retail store and associated surface parking lot. The project proposes to demolish the existing building to construct a new multi-family housing development with 223 dwelling units and 275 parking lot spaces.

Setting

The project is located in Contra Costa County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone (O_3), respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$).

<u>Air Pollutants of Concern</u>

High ozone levels are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO_X). These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM_{10}) and fine particulate matter where particles have a diameter of 2.5 micrometers or less ($PM_{2.5}$). Elevated concentrations of PM_{10} and $PM_{2.5}$ are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

[1] Bay Area Air Quality Management District, *CEQA Air Quality Guidelines*, May 2017.

Toxic Air Contaminants

TACs are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer) and include, but are not limited to, the criteria air pollutants. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State, and federal levels.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs.

Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children. The closest sensitive receptors to the project site are in the single-family residences to the south of the site. There are additional sensitive receptors to the south and northwest at further distances. This project would also introduce new sensitive receptors (i.e., residents) to the area.

Regulatory Setting

Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural, industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide fuel standards. California also has the ability to set motor vehicle emission standards and standards for fuel used in California, as long as they are the same or more stringent than the federal standards.

In the past decade the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel

engines are a significant source of NO_X and particulate matter (PM_{10} and $PM_{2.5}$) and because the EPA has identified DPM as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce particulate matter and NO_X emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.[2]

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. The new standards reduced the amount of sulfur allowed by 97 percent for highway diesel fuel (from 500 parts per million by weight [ppmw] to 15 ppmw), and by 99 percent for off-highway diesel fuel (from about 3,000 ppmw to 15 ppmw). The low sulfur highway fuel (15 ppmw sulfur), also called ultra-low sulfur diesel (ULSD), is currently required for use by all vehicles in the U.S.

All of the above federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

State Regulations

To address the issue of diesel emissions in the state, CARB developed the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.[3] In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the federal on-road and non-road diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. CARB regulations require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet 2010 or later engine standards that have much lower DPM and $PM_{2.5}$ emissions. This regulation will substantially reduce these emissions between 2013 and 2023. While new trucks and buses will meet strict federal standards, this measure is intended to accelerate the rate at which the fleet either turns over so there are more cleaner vehicles on the road or is retrofitted to meet similar standards. With this regulation, older, more polluting trucks would be removed from the roads sooner.

[2] USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.
[3] California Air Resources Board, 2000. Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles. October.

CARB has also adopted and implemented regulations to reduce DPM and NO_X emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NO_X exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent federal off-road equipment engine emission limits for new vehicles, will significantly reduce emissions of DPM and NO_X.

Bay Area Air Quality Management District

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). BAAQMD's boundary encompasses the nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County, and southern Sonoma County.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the National Ambient Air Quality Standards and California Ambient Air Quality Standards. BAAQMD also has permit authority over most types of stationary equipment utilized for the proposed project. BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.[4] The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program is being implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses will be used to focus emission reduction measures in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. Overburdened communities are areas located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0 implemented by the Office of Environmental Health Hazard Assessment (OEHHA), as having an overall CalEnviroScreen score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract.[5] The BAAQMD has identified six communities

[4] See BAAQMD: https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program , accessed 2/18/2021.
[5] See BAAQMD: https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofoverburdenedcommunities-pdf.pdf?la=en , accessed 10/1/2021.

as impacted: Concord, Richmond/San Pablo, Western Alameda County, San José, Redwood City/East Palo Alto, and Eastern San Francisco. The project site is not within a CARE or CalEnviroScreen overburdened area.

The BAAQMD California Environmental Quality Act (*CEQA) Air Quality Guidelines*[6] were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for air toxics, odors, and GHG emissions. *Attachment 1* includes detailed community risk modeling methodology.

City of Pinole General Plan Update

The Pinole General Plan Update[7] outlines the long-range policy framework to guide decision-making related to sustainability and stewardship, community tapestry, and fiscal responsibly and economic health. The Health and Safety Element and Sustainability Element includes goals, policies and actions focused on improving air quality and reducing GHG emissions. The following goals, policies, and actions are applicable to the proposed project:

GOAL SE.6 Integrate green building standards into all new and rehabilitated development.

POLICY SE.6.1 Develop local green building and energy efficiency standards.

GOAL SE.7 Air Quality will be maintained and improved for the City of Pinole and the Bay Area as a region and not decline below levels measured in the early 1990's.

POLICY SE.7.1 Continue working with the Bay Area Air Quality Management District and other regional agencies to:

1. Improve air quality through pollution prevention methods.
2. Ensure enforcement of air emission standards.
3. Reduce local and regional traffic (the single largest source of air pollution in the city) and support public transit improvements.
4. Promote regional air pollution prevention plans for business and industry.
5. Promote strategies to reduce particulate pollution from residential fireplaces and wood-burning stoves.
6. Locate parking appropriately and provide adequate signage to reduce unnecessary "circling" and searching for parking.
7. Promote anti-idling policies and programs.

[6] Bay Area Air Quality Management District, 2017. *CEQA Air Quality Guidelines*. May.
[7] City of Pinole, *Pinole Genera Plan Update*, November 2010. Web: https://p1cdn4static.civiclive.com/UserFiles/Servers/Server_10946972/File/City%20Government/Planning/General%20Plan/City_of_Pinole_2010_General_Plan%20with%202015-2023%20Housing%20Element%20Update.pdf

ACTION SE.7.1.1 Apply BAAQMD-approved criteria air pollutant reducing Basic Construction Mitigation Measures to all future construction projects within the GPU Planning Area where feasible whether or not construction related emissions exceed applicable Thresholds of Significance. These best management practices include the following:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations (BAAQMD, 2010).

Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA and these significance thresholds were contained in BAAQMD's 2011 CEQA Air Quality Guidelines. These thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The thresholds were challenged through a series of court challenges and were mostly upheld. BAAQMD updated the CEQA Air Quality Guidelines in 2017 to include the latest significance thresholds, which were used in this analysis and are summarized in Table 1. Impacts above these thresholds are considered potentially significant.

Table 1. BAAQMD CEQA Significance Thresholds

Criteria Air Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
ROG	54	54	10
NO_x	54	54	10
PM_{10}	82 (Exhaust)	82	15
$PM_{2.5}$	54 (Exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices	None	
Health Risks and Hazards	**Single Sources Within 1,000-foot Zone of Influence**	**Combined Sources (Cumulative from all sources within 1000-foot zone of influence)**	
Excess Cancer Risk	10 per one million	100 per one million	
Hazard Index	1.0	10.0	
Incremental annual $PM_{2.5}$	0.3 $\mu g/m^3$	0.8 $\mu g/m^3$	
Greenhouse Gas Emissions			
Land Use Projects – direct and indirect emissions	Compliance with a Qualified GHG Reduction Strategy OR 1,100 metric tons annually or 4.6 metric tons per capita (for 2020) *		
Note: ROG = reactive organic gases, NOx = nitrogen oxides, PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, $PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. GHG = greenhouse gases. *BAAQMD does not have a recommended post-2020 GHG threshold.			

Source: Bay Area Air Quality Management District, 2017

AIR QUALITY IMPACTS AND MITIGATION MEASURES

Impact AIR-1: Conflict with or obstruct implementation of the applicable air quality plan?

BAAQMD is the regional agency responsible for overseeing compliance with State and federal laws, regulations, and programs within the San Francisco Bay Area Air Basin (SFBAAB). BAAQMD, with assistance from the Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC), prepares and implements specific plans to meet the applicable laws, regulations, and programs. The most recent and comprehensive of which is the *Bay Area 2017 Clean Air Plan*.[8] The primary goals of the Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions and protect the climate. BAAQMD has also developed CEQA guidelines to assist lead agencies in evaluating the significance of air quality and GHG impacts. In formulating compliance strategies, BAAQMD relies on planned land uses established by local general plans. Land use planning affects vehicle travel, which, in turn, affects region-wide emissions of air pollutants and GHGs.

The 2017 Clean Air Plan, adopted by BAAQMD in April 2017, includes control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. Plans must show consistency with the control measures listed within the Clean Air Plan. At the project-level, there are no consistency measures or thresholds. The proposed project would not conflict with the latest Clean Air planning efforts since 1) project would have emissions below the BAAQMD thresholds (see Impact below) and 2) the project would be considered urban infill.

Impact AIR-2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The Bay Area is considered a non-attainment area for ground-level O_3 and $PM_{2.5}$ under both the Federal Clean Air Act and the California Clean Air Act. The area is also considered non-attainment for PM_{10} under the California Clean Air Act, but not the federal act. The area has attained both State and Federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for O_3, $PM_{2.5}$ and PM_{10}, BAAQMD has established thresholds of significance for these air pollutants and their precursors. These thresholds are for O_3 precursor pollutants (ROG and NOx), PM_{10}, and $PM_{2.5}$ and apply to both construction period and operational period impacts.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types and size, and anticipated construction schedule were input to CalEEMod. The CARB EMission FACtors 2021 (EMFAC2021) model was used to predict

[8] Bay Area Air Quality Management District (BAAQMD), 2017. *Final 2017 Clean Air Plan.*

emissions from construction traffic, which includes worker travel, vendor trucks, and haul trucks.[9] The CalEEMod model output along with construction inputs are included in *Attachment 2* and EMFAC2021 vehicle emissions modeling outputs are included in *Attachment 3*.

CalEEMod Modeling

Land Use Inputs

The proposed project land uses were entered into CalEEMod as described in Table 2.

Table 2. Summary of Project Land Use Inputs

Project Land Uses	Size	Units	Square Feet (sf)	Acreage
Apartments Mid Rise	223	Dwelling Unit	263,862	5.93
Parking Lot	275	Parking Spaces	91,730	

Construction Inputs

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment list and schedule, were based on information provided by the applicant.

The project construction equipment worksheet provided by the applicant included the schedule for each phase. Within each phase, the quantity of equipment to be used along with the average hours per day and total number of workdays was provided. Since different equipment would have different estimates of the working days per phase, the hours per day for each phase was computed by dividing the total number of hours that the equipment would be used by the total number of days in that phase. The construction schedule assumed that the earliest possible start date would be September 2022 and would be built out over a period of approximately 24 months, or 524 construction workdays. The earliest year of full operation was assumed to be 2025.

Construction Truck Traffic Emissions

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the estimate of soil material imported and/or exported to the site and the estimate of cement and asphalt truck trips. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. The total trips for those were computed by multiplying the daily trip rate by the number of days in that phase. Haul trips for demolition and grading were estimated from the provided demolition and grading volumes by assuming each truck could carry 10 tons per load. The number of concrete and asphalt total round haul trips were provided for the project and converted to total one-way trips, assuming two trips per delivery.

[9] See CARB's EMFAC2021 Emissions Inventory at https://arb.ca.gov/emfac/emissions-inventory.

The latest version of the CalEEMod model is based on the older version of the CARB EMFAC2017 motor vehicle emission factor model. This model has been superseded by the EMFAC2021 model; however, CalEEMod has not been updated to include EMFAC2021. Therefore, the construction traffic information was combined with EMFAC2021 motor vehicle emissions factors. EMFAC2021 provides aggregate emission rates in grams per mile for each vehicle type. The vehicle mix for this study was based on CalEEMod default assumptions, where worker trips are assumed to be comprised of light-duty autos (EMFAC category LDA) and light duty trucks (EMFAC category LDT1and LDT2). Vendor trips are comprised of delivery and large trucks (EMFAC category MHDT and HHDT) and haul trips, including cement trucks, are comprised of large trucks (EMFAC category HHDT). Travel distances are based on CalEEMod default lengths, which are 10.8 miles for worker travel, 7.3 miles for vendor trips and 20 miles for hauling (soil import/export). Since CalEEMod does not address cement trucks, these were treated as vendor travel distances. Each trip was assumed to include an idle time of 5 minutes. Emissions associated with vehicle starts were also included. On-road emissions in Contra Costa County for the years 2022-2024 was used in these calculations. Table 3 provides the traffic inputs that were combined with the EMFAC2021 emission database to compute vehicle emissions.

Table 3. Construction Traffic Data Used for EMFAC2021 Model Runs

CalEEMod Run/Land Uses and Construction Phase	Trips by Trip Type			Notes
	Total Worker[1]	Total Vendor[1]	Total Haul[2]	
Vehicle mix[1]	50% LDA 25% LDT1 25% LDT2	50% MHDT 50% HHDT	100% HHDT	
Trip Length (miles)	10.8	7.3	20.0 (Demo/Soil) 7.3 (Cement/Asphalt)	CalEEMod default distance with 5-min truck idle time.
Demolition	125	-	1,011	91,342-sf existing building demolition, 2,980 tons pavement demolition. CalEEMod default worker trips.
Site Preparation	30	-	-	CalEEMod default worker trips.
Grading	80	-	25	100-cy soil export. 100-cy soil import. CalEEMod default worker trips.
Trenching	300	-	-	CalEEMod default worker trips.
Building Construction	76,018	14,898	300	150 cement truck round trips. CalEEMod default worker and vendor trips.
Architectural Coating	15,280	-	-	CalEEMod default worker trips.
Paving	200	-	228	114 asphalt truck round trips. CalEEMod default worker trips.

Notes: [1] Based on Year 2022 - 2024 EMFAC2021 light-duty vehicle fleet mix for Contra Costa County.
[2] Includes demolition and grading trips estimated by CalEEMod based on amount of material to be removed. Cement and asphalt trips estimated based on estimated building and pavement areas.

Summary of Computed Construction Period Emissions

Average daily emissions were annualized for each year of construction by dividing the annual construction emissions by the number of active workdays during that year. Table 4 shows the annualized average daily construction emissions of ROG, NO_X, PM_{10} exhaust, and $PM_{2.5}$ exhaust

during construction of the project. As indicated in Table 4, predicted annualized project construction emissions would not exceed the BAAQMD significance thresholds during any year of construction.

Table 4. Construction Period Emissions

Year	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
Construction Emissions Per Year (Tons)				
2022	0.04	0.23	0.01	0.01
2023	1.25	0.33	0.02	0.01
2024	0.78	0.20	0.01	0.01
Annualized Daily Construction Emissions (pounds/day)				
2022 (84 construction workdays)	1.00	5.47	0.30	0.21
2023 (261 construction workdays)	9.53	2.55	0.18	0.10
2024 (179 construction workdays)	8.71	2.21	0.17	0.08
BAAQMD Thresholds (pounds per day)	*54* lbs./day	*54* lbs./day	*82* lbs./day	*54* lbs./day
Exceed Threshold?	No	No	No	No

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM_{10} and $PM_{2.5}$. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. The City has adopted the BAAQMD CEQA Air Quality Guidelines best management practices to control dust and exhaust during construction projects under the City's General Plan Update Action SE.7.1.1. *The project would be required to implement these practices during construction activities.* Therefore, air pollutant emissions from the project construction would be further reduced.

Operational Period Emissions

Operational air emissions from the project would be generated primarily from autos driven by future residents. Evaporative emissions from architectural coatings and maintenance products (classified as consumer products) are typical emissions from these types of uses. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

<u>CalEEMod Inputs</u>

Land Uses

The project land uses were input to CalEEMod as described above for the construction period modeling.

Model Year

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CalEEMod. The earliest year of full operation

would be 2025 if construction begins in 2022. Emissions associated with build-out later than 2025 would be lower.

Traffic Information

CalEEMod allows the user to enter specific vehicle trip generation rates. The project-specific daily trip generation rate provided by the traffic consultant.[10] The land uses in the traffic report did not match the land uses of the project. Therefore, the daily trip generation was calculated using the updated size of the project and the traffic provided trip generation rate based on the land use type. The Saturday and Sunday trip rates were adjusted by multiplying the ratio of the CalEEMod default rates for Saturday and Sunday trips to the default weekday rate with the project-specific daily weekday trip rate. With these adjustments, the project would reduce the site's daily trips by 877. The default trip types and lengths specified by CalEEMod were used.

EMFAC2021 Adjustment

The vehicle emission factors and fleet mix used in CalEEMod are based on EMFAC2017, which is an older CARB emission inventory for on road and off road mobile sources. Since the release of CalEEMod Version 2020.4.0, new emission factors have been produced by CARB. EMFAC2021 became available for use in January 2021. It includes the latest data on California's car and truck fleets and travel activity. The CalEEMod vehicle emission factors and fleet mix were updated with the emission rates and fleet mix from EMFAC2021, which were adjusted with the CARB EMFAC off-model adjustment factors. On road emission rates from 2025 Contra Costa County were used (See *Attachment 3*). More details about the updates in emissions calculation methodologies and data are available in the EMFAC2021 Technical Support Document.[11]

Energy

CalEEMod defaults for energy use were used, which include the 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. The electricity produced emission rate was modified in CalEEMod. CalEEMod has a default emission factor of 203.98 pounds of CO_2 per megawatt of electricity produced, which is based on PG&E's 2019 emissions rate.

Other Inputs

Default model assumptions for emissions associated with solid waste generation use were applied to the project. Water/wastewater use were changed to 100% aerobic conditions to represent wastewater treatment plant conditions since the project site would not send wastewater to septic tanks or facultative lagoons.

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[10] W-Trans, *Traffic Analysis for the Pinole Vista Project*, February 17, 2021.

[11] See CARB 2021: https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/road-documentation/msei-modeling-tools-emfac

Existing Uses

The existing site consists of a vacant 91,342-sf retail building and surface parking lot. Since the existing building is vacant, the emissions were not netted out and the project was considered to be a completely new source of emissions. However, it should be noted that the retail building could be reoccupied and result in future emissions without any additional analysis. A CalEEMod model run was developed to compute emissions from the existing/reuse land uses as if they were operating in 2025. The reuse land uses were input as 91,342-sf of "Strip Mall" and 230,676-sf of "Parking Lot." The existing/reuse trip generation rates provided by the traffic consultant and other inputs were applied to the existing/reuse modeling in the same manner described for the proposed project. Historical energy data for this land use was used.

Summary of Computed Operational Period Emissions

Annual emissions were predicted using CalEEMod. The daily emissions were estimated assuming 365 days of operation. Table 5 shows average daily emissions of ROG, NO_X, total PM_{10}, and total $PM_{2.5}$ during operation of the project. The operational period emissions would not exceed the BAAQMD significance thresholds.

Table 5. Operational Period Emissions

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
2025 Project Operational Emissions (*tons/year*)	2.06	0.65	0.93	0.25
2025 Reuse Site Operational Emissions (*tons/year*)	1.64	0.71	1.01	0.26
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Thresholds?	No	No	No	No
2025 Project Operational Emissions (*lbs./day*)[1]	11.30	3.56	5.09	1.37
2025 Reuse Site Operational Emissions (*lbs./day*) [1]	8.99	3.89	5.53	1.42
BAAQMD Thresholds (lbs./day)	*54 lbs.*	*54 lbs.*	*82 lbs.*	*54 lbs.*
Exceed Threshold?	No	No	No	No

Notes: [1] Assumes 365-day operation.

Impact AIR-3: Expose sensitive receptors to substantial pollutant concentrations?

Project impacts related to increased community risk can occur either by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors in the project vicinity or by significantly exacerbating existing cumulative TAC impacts. This project would introduce new sources of TACs during construction (i.e., on-site construction and truck hauling emissions) and operation (i.e., mobile sources and stationary sources).

Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. The project would not include the installation of any emergency generators powered by a diesel engine but would generate some traffic consisting of mostly light-duty gasoline-powered vehicles, which would produce TAC and air pollutant emissions.

Project impacts to existing sensitive receptors were addressed for temporary construction activities and long-term operational conditions. There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impact of the existing sources of TAC was also assessed in terms of the cumulative risk which includes the project contribution, as well as the risk on the new sensitive receptors introduced by the project.

Community Risk Methodology for Construction and Operation

Community risk impacts were addressed by predicting increased cancer risk, the increase in annual $PM_{2.5}$ concentrations and computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risks from construction and operation sources. These sources include on-site construction activity, construction truck hauling, and increased traffic from the project. To evaluate the increased cancer risks from the project, a 30-year exposure period was used, per BAAQMD guidance,[12] with the sensitive receptors being exposed to both project construction and operation emissions during this timeframe.

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions. Unlike, the increased maximum cancer risk, the annual $PM_{2.5}$ concentration and HI values are not additive but based on the annual maximum values for the entirety of the project. The project maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing community risks impacts is contained in *Attachment 1*. This involved the calculation of TAC and $PM_{2.5}$ emissions, dispersion modeling of these emissions, and computations of cancer risk and non-cancer health effects.

Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations would be present for extended periods of time (i.e., chronic exposures). This includes the existing residences to the south and northwest of the site and other existing residences at further distances, as shown in Figure 1. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions.

Community Health Risk from Project Construction

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust, which is a known TAC. These exhaust air pollutant emissions would not be considered to contribute substantially to existing or projected air quality violations. Construction exhaust emissions may still pose health risks for sensitive receptors such as surrounding residents (see Impact AIR-2). The primary community risk impact issue associated with construction emissions are cancer risk and exposure to $PM_{2.5}$. Diesel exhaust poses both a potential health and nuisance impact to nearby receptors. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of

[12] BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

DPM and $PM_{2.5}$.[13] This assessment included dispersion modeling to predict the offsite and on-site concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be evaluated.

Construction Emissions

The CalEEMod model and EMFAC2021 emissions provided total annual PM_{10} exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles, with total emissions from all construction stages as 0.02 tons (34 pounds). The on-road emissions are a result of haul truck travel during grading activities, worker travel, and vendor deliveries during construction. A trip length of half a mile was used to represent vehicle travel while at or near the construction site. It was assumed that these emissions from on-road vehicles traveling at or near the site would occur at the construction site. Fugitive $PM_{2.5}$ dust emissions were calculated by CalEEMod as 0.01 tons (20 pounds) for the overall construction period.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict concentrations of DPM and $PM_{2.5}$ concentrations at sensitive receptors in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.[14] Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive $PM_{2.5}$ dust emissions.

Construction Sources

To represent the construction equipment exhaust emissions, an area source emission release height of 20 feet (6 meters) was used for the area sources.[15] The release height incorporates both the physical release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would do for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction equipment, should be based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe.

For modeling fugitive $PM_{2.5}$ emissions, a near-ground level release height of 7 feet (2 meters) was used for the area source. Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind

[13] DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.
[14] Bay Area Air Quality Management District (BAAQMD), 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0.* May.
[15] California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology*. April. Web: https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm

across the site and exit the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources.

AERMOD Inputs and Meteorological Data

The modeling used a five-year data set (2013 - 2017) of hourly meteorological data from the Conoco Philips Hillcrest site prepared for use with the AERMOD model by BAAQMD. As shown in Figure 1, the wind rose indicated construction emissions would move away from the adjacent southern sensitive receptors. Construction emissions were modeled as occurring daily between 7:00 a.m. to 4:00 p.m., when the majority of construction activity is expected to occur. Annual DPM and $PM_{2.5}$ concentrations from construction activities during the 2022-2024 period were calculated using the model. DPM and $PM_{2.5}$ concentrations were calculated at nearby sensitive receptors. Receptor elevations were based on USGS National Elevation Data (NED) with a 30-meter resolution. Receptor heights of 5 feet (1.5 meters) were used to represent the breathing height on the first floor of nearby single-family residences.[16]

Summary of Construction Community Risk Impacts

The maximum increased cancer risks were calculated using the modeled TAC concentrations combined with OEHHA guidance for age sensitivity factors and exposure parameters as recommended by BAAQMD (see *Attachment 1)*. Non-cancer health hazards and maximum $PM_{2.5}$ concentrations were also calculated and identified. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period.

The maximum modeled annual $PM_{2.5}$ concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI value was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation refence exposure level of 5 $\mu g/m^3$.

The maximum modeled annual DPM and $PM_{2.5}$ concentrations, which includes both the DPM and fugitive $PM_{2.5}$ concentrations, were identified at nearby sensitive receptors (as shown in Figure 1) to find the maximally exposed individuals (MEI). Results of this assessment indicated that the construction MEI was located on the first floor (5 feet above ground) of a single-family home south of the project site. Table 6 summarizes the maximum cancer risks, $PM_{2.5}$ concentrations, and health hazard indexes for project related construction activities affecting the construction MEI. *Attachment 4* to this report includes the emission calculations used for the construction area source modeling and the cancer risk calculations.

[16] Bay Area Air Quality Management District, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

Community Risks from Project Operation – Traffic and Stationary Equipment

Stationary equipment that could emit substantial TACs (e.g., emergency generators) are not planned for this project. Operation of the project would have long-term emissions from mobile sources (i.e., traffic). Per BAAQMD recommended risks and methodology, a road with less than 10,000 total vehicles per day is considered a low-impact source of TACs.[17] With the adjusted trip generation explained above, the project itself would generate 1,213 daily trips but would have a site net reduction of 877 trips, when considering the potential re-occupation of the retail building. These trips would be dispersed on the roadway system with a majority of the trips being from light-duty vehicles (i.e., passenger automobiles), and the project daily and net daily trips are a fraction of 10,000 daily vehicles. Therefore, emissions from project traffic are considered negligible and not included within this analysis.

Summary of Project-Related Community Risks at the Off-Site Project MEI

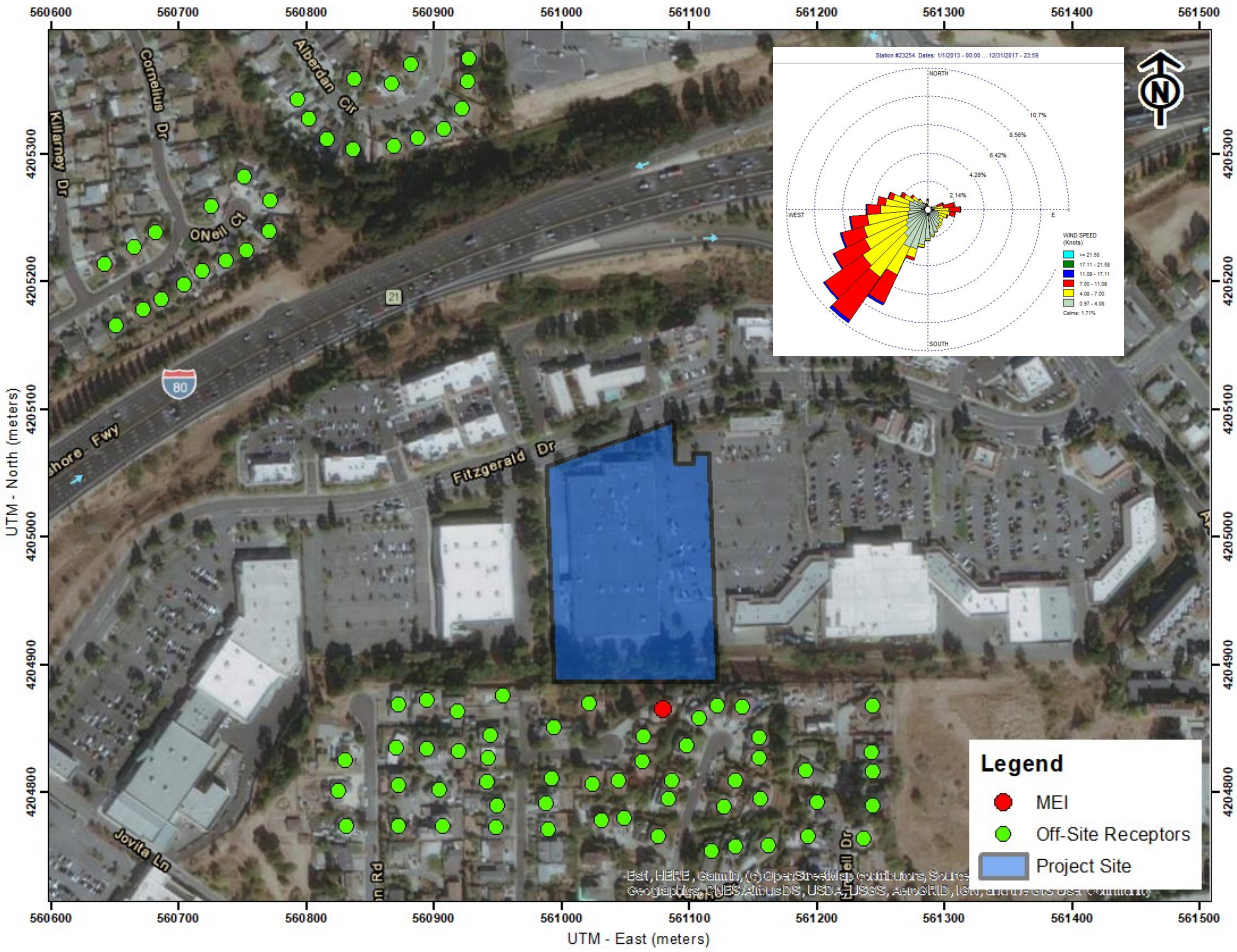
Project risk impacts are shown in Table 6. The unmitigated maximum increased cancer risks, maximum $PM_{2.5}$ concentration, and health hazard indexes from construction activities at the MEI do not exceed their respective BAAQMD single-source thresholds.

Table 6. Construction Risk Impacts at the Off-Site MEI

Source		Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Impact				
Project Construction	Unmitigated	1.65 (infant)	0.01	<0.01
	BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*

[17] Bay Area Air Quality Management District, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0.* May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

Figure 1. Locations of Project Construction Site, Off-Site Sensitive Receptors, Maximum TAC Impact, and Wind Rose



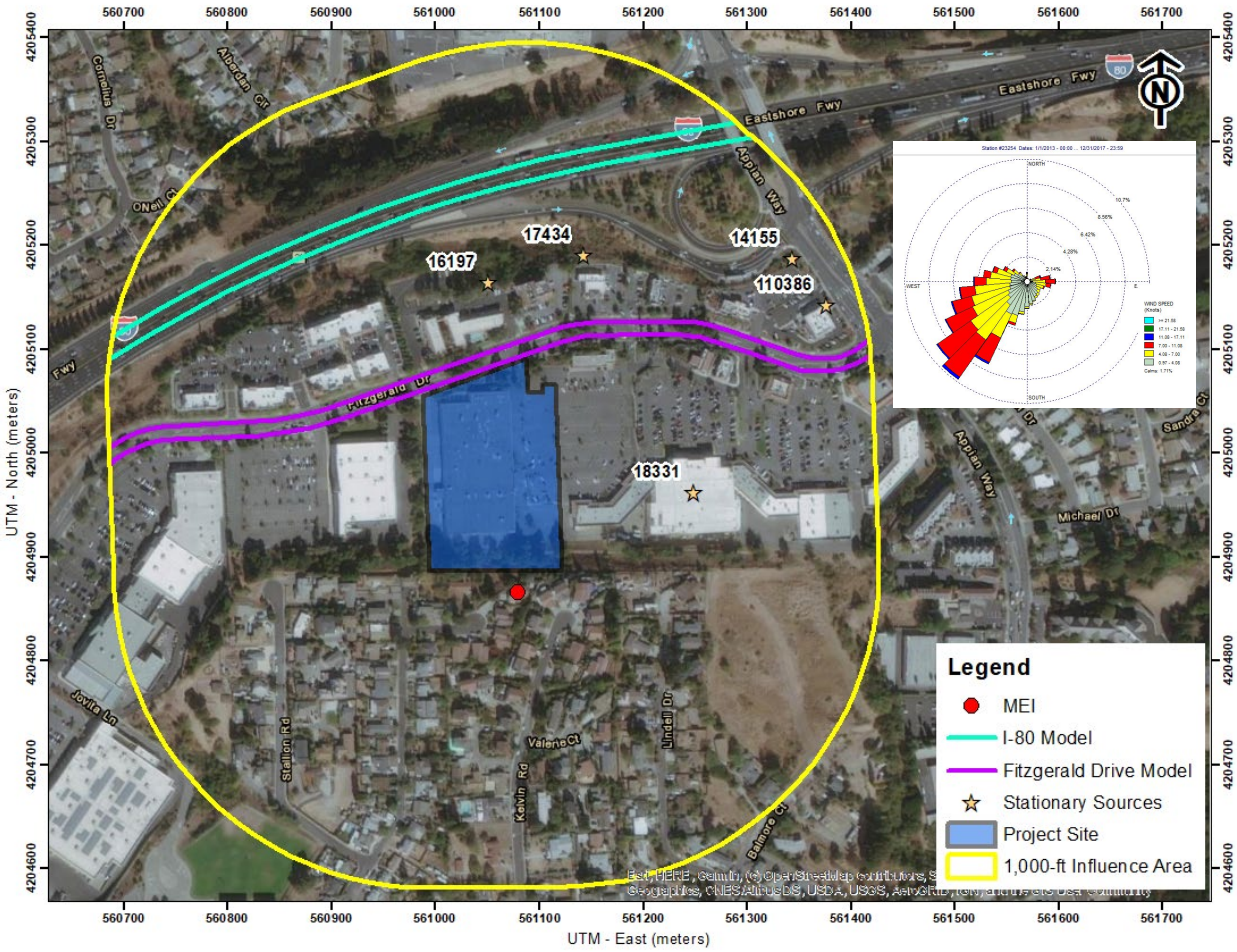
Cumulative Community Risks of all TAC Sources at the Off-Site Project MEI

Community health risk assessments typically look at all substantial sources of TACs that can affect sensitive receptors that are located within 1,000 feet of a project site (i.e., influence area). These sources include rail lines, highways, busy surface streets, and stationary sources identified by BAAQMD.

A review of the project area and based on provided traffic information indicated that traffic on Interstate 80 (I-80) and Fitzgerald Drive within the influence area would have traffic exceeding 10,000 vehicles per day. Other nearby streets are assumed to have less than 10,000 vehicles per day. A small section of Appian Way is just within the influence area but given that it is on the boundary and majority of the roadway is not within area, and it is downwind from the project site and project MEI, Appian Way was not included in the cumulative assessment. A review of BAAQMD's stationary source geographic information systems (GIS) map tool identified five stationary sources with the potential to affect the project site and MEIs. Figure 2 shows the location of the sources affecting the MEI. Community risk impacts from these sources upon the MEI

reported in Table 7. Details of the modeling and community risk calculations are included in *Attachment 5.*

Figure 2. Project Site, Nearby TAC and $PM_{2.5}$ Sources, and Wind Rose



Highways – Interstate 80

The project MEI is located near I-80. A refined analysis of the impacts of TACs and $PM_{2.5}$ to the MEI receptor is necessary to evaluate potential cancer risks and $PM_{2.5}$ concentrations from the highway. A review of the traffic information reported by California Department of Transportation (Caltrans) indicates that I-80 traffic includes 167,000 vehicles per day (based on an annual average)[18] that are about 6.0 percent trucks, of which 2.9 percent are considered diesel heavy duty trucks and 3.1 percent are medium duty trucks.[19]

Traffic Emissions Modeling

This analysis involved the development of DPM, organic TACs, and $PM_{2.5}$ emissions for traffic on I-80 using the Caltrans version of the CARB EMFAC2017 emissions model, known as CT-

[18] Caltrans. 2021. *2019 Traffic Volumes on California State Highways.*
[19] Caltrans. 2021. *2020 Annual Average Daily Truck Traffic on the California State Highway System.*

EMFAC2017.[20] CT-EMFAC2017 provides emission factors for mobile source criteria pollutants and TACs, including DPM. Emission processes modeled include running exhaust for DPM, $PM_{2.5}$ and total organic compounds (TOG), running evaporative losses for TOG, and tire and brake wear and fugitive road dust for $PM_{2.5}$. All $PM_{2.5}$ emissions from all vehicles were used, rather than just the $PM_{2.5}$ fraction from diesel powered vehicles, because all vehicle types (i.e., gasoline and diesel powered) produce $PM_{2.5}$. Additionally, $PM_{2.5}$ emissions from vehicle tire and brake wear from re-entrained roadway dust were included in these emissions. DPM emissions are projected to decrease in the future and are reflected in the CT-EMFAC2017 emissions data. Inputs to the model include region (Contra Costa County), type of road (freeway), traffic mix assigned by CT-EMFAC2017 for the county and adjusted for the local truck mix on I-80, year of analysis (2022 – construction start year), and season (annual).

In order to estimate TAC and $PM_{2.5}$ emissions over the 30-year exposure period used for calculating the increased cancer risks for sensitive receptors at the MEI and project site, the CT-EMFAC2017 model was used to develop vehicle emission factors for the year 2022 (construction start year). Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CT-EMFAC2017. Year 2022 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated since, as discussed above, overall vehicle emissions, and in particular diesel truck emissions, will decrease in the future.

Average daily traffic volumes and truck percentages were based on Caltrans data for I-80. Traffic volumes were assumed to increase 1 percent per year. Hourly traffic distributions specific to these segments of I-80 were obtained from Caltrans Performance Measurement System (PeMS). PeMS data is collected in real-time from nearly 40,000 individual detectors spanning the freeway system across all major metropolitan areas of California.[21] The fraction of traffic volume each hour was calculated and applied to the 2022 average daily traffic volumes estimate to estimate hourly traffic emission rates for the highway.

For all hours of the day, other than during peak a.m. and p.m. periods, an average speed of 65 mph was assumed for all vehicles. Based on traffic data from PeMS, traffic speeds during the peak a.m. and p.m. periods were identified. For the 2-hour periods during the peak a.m. period and peak p.m. period, an average travel speed of 35 mph was used for eastbound and westbound traffic.

This analysis involved the development of DPM, organic TACs, and $PM_{2.5}$ emissions for future traffic on I-80 and using these emissions with an air quality dispersion model to calculate TAC and $PM_{2.5}$ concentrations at the project MEI receptor location. Maximum increased lifetime cancer risks and annual $PM_{2.5}$ concentrations for the receptor were then computed using modeled TAC and $PM_{2.5}$ concentrations and BAAQMD methods and exposure parameters described in *Attachment 1*.

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[20] Note that Caltrans had not developed CT-EMFAC2021 at the time of this analysis. Use of CT-EMFAC with EMFAC2021 incorporated would likely result in lower risks and $PM_{2.5}$ concentrations.

[21] Caltrans. *Performance Measurement System (PeMS) Data Source.* 2021. Web: https://dot.ca.gov/programs/traffic-operations/mpr/pems-source

Dispersion Modeling

Dispersion modeling of TAC and $PM_{2.5}$ emissions was conducted using the U.S. EPA AERMOD dispersion model, which is recommended by the BAAQMD for this type of analysis.[22] TAC and $PM_{2.5}$ emissions from traffic on the highway within about 1,000 feet of the project site was evaluated with the model. Emissions from vehicle traffic were modeled in AERMOD using a series of volume sources along a line (line volume sources), with line segments used to represent eastbound and westbound travel lanes on the highway. The same meteorological data and off-site sensitive receptors used in the previous construction dispersion modeling were used in the highway modeling. As shown in Figure 2, the wind rose indicated highway emissions would move away from the MEI receptor. Other inputs to the model included road geometry and elevations, hourly traffic emissions, and receptor locations and heights. Roadway and receptor elevations were based on USGS National Elevation Data (NED) with a 30-meter resolution. Annual TAC and $PM_{2.5}$ concentrations for 2022 from traffic on I-80 were calculated using the model. Concentrations were calculated at the project MEI with receptor height of 5 feet (1.5 meters) to represent the breathing heights on the first floor of the nearby residence.

Computed Cancer and Non-Cancer Health Impacts

The cancer risk, $PM_{2.5}$ concentration, and HI impacts from I-80 on the project MEI are shown in Table 7. Figure 2 shows the roadway links used for the modeling and receptor location where concentrations were calculated. Details of the emission calculations, dispersion modeling, and cancer risk calculations for the receptor with the maximum cancer risk from I-80 traffic are provided in *Attachment 5*.

<u>Local Roadways – Fitzgerald Drive</u>

A refined analysis of potential health impacts from vehicle traffic on Fitzgerald Drive was conducted, similar to the highway analysis above. The refined analysis involved predicting emissions for the traffic volume and mix of vehicle types on the roadway near the project site and using an atmospheric dispersion model to predict exposure to TACs. The associated cancer risks are then computed based on the modeled exposures. *Attachment 1* includes a description of how community risk impacts, including cancer risk are computed.

Emission Rates

Local roadway inputs to the CT-EMFAC2017 model include region (Contra Costa County), type of road (major/collector), truck percentage for non-state highways in Contra Costa County (3.59 percent),[23] traffic mix assigned by CT-EMFAC2017 for the county, year of analysis (2022 – construction start year), and season (annual).

The average daily traffic (ADT) for Fitzgerald Drive was based on AM and PM peak-hour existing

[22] BAAQMD. *Recommended Methods for Screening and Modeling Local Risks and Hazards*. May 2012
[23] Bay Area Air Quality Management District, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0.* May. Web: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en

plus project traffic volumes for the nearby roadways provided by the project's traffic consultant.[24] Assuming a 1 percent per year increase, the predicted ADT on Fitzgerald Drive would be 15,291 vehicles. Average hourly traffic distributions for Contra Costa County roadways were developed using the EMFAC model,[25] which were then applied to the ADT volumes to obtain estimated hourly traffic volumes and emissions for the roadway. For all hours of the day, an average speed of 30 mph for Fitzgerald Drive was assumed for all vehicles based on posted speed limit signs on the roadway.

Dispersion Modeling

Dispersion modeling of TAC and $PM_{2.5}$ emissions was conducted using the EPA AERMOD air quality dispersion model. TAC and $PM_{2.5}$ emissions from traffic on Fitzgerald Drive within 1,000 feet of the project site were evaluated. Vehicle traffic on the roadway was modeled using a series of volume sources along a line (line volume sources), with line segments used for the eastbound and westbound travel direction on the roadway. The same meteorological data and off-site sensitive receptors used in the highway dispersion modeling were used in the roadway modeling. As shown in Figure 2, the wind rose indicated roadway emissions would move away from the MEI receptor. Other inputs to the model included road geometry and elevations, hourly traffic emissions, and receptor locations.

Figure 2 shows the roadway segments modeled and residential MEI receptor location used in the modeling. Table 7 lists the risks and hazards from the roadways. The emission rates and roadway calculations used in the analysis are shown in *Attachment 5*.

<u>BAAQMD Permitted Stationary Sources</u>

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2018* GIS website,[26] which identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for new OEHHA guidance. Five sources were identified using this tool with four sources being diesel-powered generators and one being a gas dispensing facility. The BAAQMD GIS website provided screening risks and hazards for this source, so a stationary source information request was not required to be submitted to BAAQMD. After further review, sources #16197 and #18331 did not have any risk or hazard impact data, so they were removed from the cumulative analysis as they would have no impacts at the MEI.

The screening level risks and hazards provided by BAAQMD for the remaining stationary sources were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for Diesel Internal Combustion Engines and Gas Dispensing Facilities*. Community risk impacts from the stationary sources upon the MEI are reported in Table 7.

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[24] W-Trans, *Traffic Analysis for the Pinole Vista Project*, February 17, 2021

[25] The Burden output from EMFAC2007, a previous version of CARB's EMFAC model, was used for this since the current web-based version of EMFAC2014 does not include Burden type output with hour by hour traffic volume information.

[26] BAAQMD, https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65

Summary of Cumulative Health Risk Impact at Construction MEI

Table 7 reports both the project and cumulative community risk impacts at the sensitive receptors most affected by construction (i.e., the MEI). The project would not have exceedances with respect to community risk caused by project construction activities, since the maximum unmitigated cancer risk, annual $PM_{2.5}$ concentration and Hazard Index did not exceed the BAAQMD single-source thresholds. Additionally, the cancer risk, $PM_{2.5}$ concentration, and HI also do not exceed their respective cumulative thresholds. According to BAAQMD, health risks would be less than significant if the risks from the project are reduced below the single-source thresholds.

Table 7. Cumulative Community Risk Impacts at the Location of the Project MEI

Source		Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Impacts				
Project Construction	Unmitigated	1.65 (infant)	0.01	<0.01
BAAQMD Single-Source Threshold		***10***	***0.3***	***1.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*
Cumulative Sources				
Interstate 80		3.49	0.09	<0.01
Fitzgerald Drive, ADT 15,291		0.48	0.02	<0.01
West County Wastewater District (Facility ID #14155, Generator), MEI at +1,000 feet		0.06	-	-
Target Store T-0737 (Facility ID #17434, Generator), MEI at +1,000 feet		<0.01	-	-
7- Eleven Inc. #37994 (Facility ID #110386, Gas Station), MEI at +1,000 feet		0.77	-	<0.01
Combined Sources	Unmitigated	6.46	0.12	<0.04
BAAQMD Cumulative Source Threshold		***100***	***0.8***	***10.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*

On-Site Community Health Risk Impacts – New Project Residents

In addition to evaluating health impact from project construction, a health risk assessment was completed to assess the impact existing TAC sources would have on the new proposed sensitive receptors (residents) that that project would introduce. The same TAC sources identified above were used in this health risk assessment.[27]

Highways and Local Roadways – I-80 and Fitzgerald Drive

The highway and roadway analyses for the project residents was conducted in the same manner as described above for the off-site MEI. The project set of receptors were placed throughout the future proposed residential building and were spaced every 23 feet (7 meters). Highway and roadway

[27] We note that to the extent this analysis considers *existing* air quality issues in relation to the impact on *future residents* of the Project, it does so for informational purposes only pursuant to the judicial decisions in *CBIA v. BAAQMD* (2015) 62 Cal.4th 369, 386 and *Ballona Wetlands Land Trust v. City of Los Angeles* (2011) 201 Cal.App.4th 455, 473, which confirm that the impacts of the environment on a project are excluded from CEQA unless the project itself "exacerbates" such impacts.

impacts were modeled at receptor heights of 5 feet (1.5 meters), 18 feet (5.4 meters), and 28 feet (8.5 meters) representing sensitive receptors on the first through third floors on the future multi-family residential building. The portions of I-80 and Fitzgerald Drive included in the modeling are shown in Figure 3 along with the project site and receptor locations where impacts were modeled. As shown in Figure 3, the wind rose indicated highway and roadway emissions would move away from the on-site sensitive receptors.

Maximum increased cancer risks were calculated for the residents at the project site using the maximum modeled TAC concentrations. A 30-year exposure period with vehicle emission factors for the year 2025 (project operational year) was used in calculating cancer risks. This assumed the future residents would include third trimester pregnancy and infants/children and were assumed to be in the new homes for 24 hours per day for 350 days per year. The highest impacts from I-80 and Fitzgerald Drive occurred at the first-floor receptor in the northwest corner unit of the project residential building. Cancer risks associated with I-80 and Fitzgerald Drive are greatest closest to the roadways and decrease with distance from the roads. The highway and roadway community risk impacts at the project site are shown in Table 8. Details of the highway and roadway emission calculations, dispersion modeling, and cancer risk calculations are contained in *Attachment 5.*

Stationary Sources

The stationary source screening analysis for the new project sensitive receptors was conducted in the same manner as described above for the construction MEI. Table 8 shows the health risk screening results from the stationary sources.

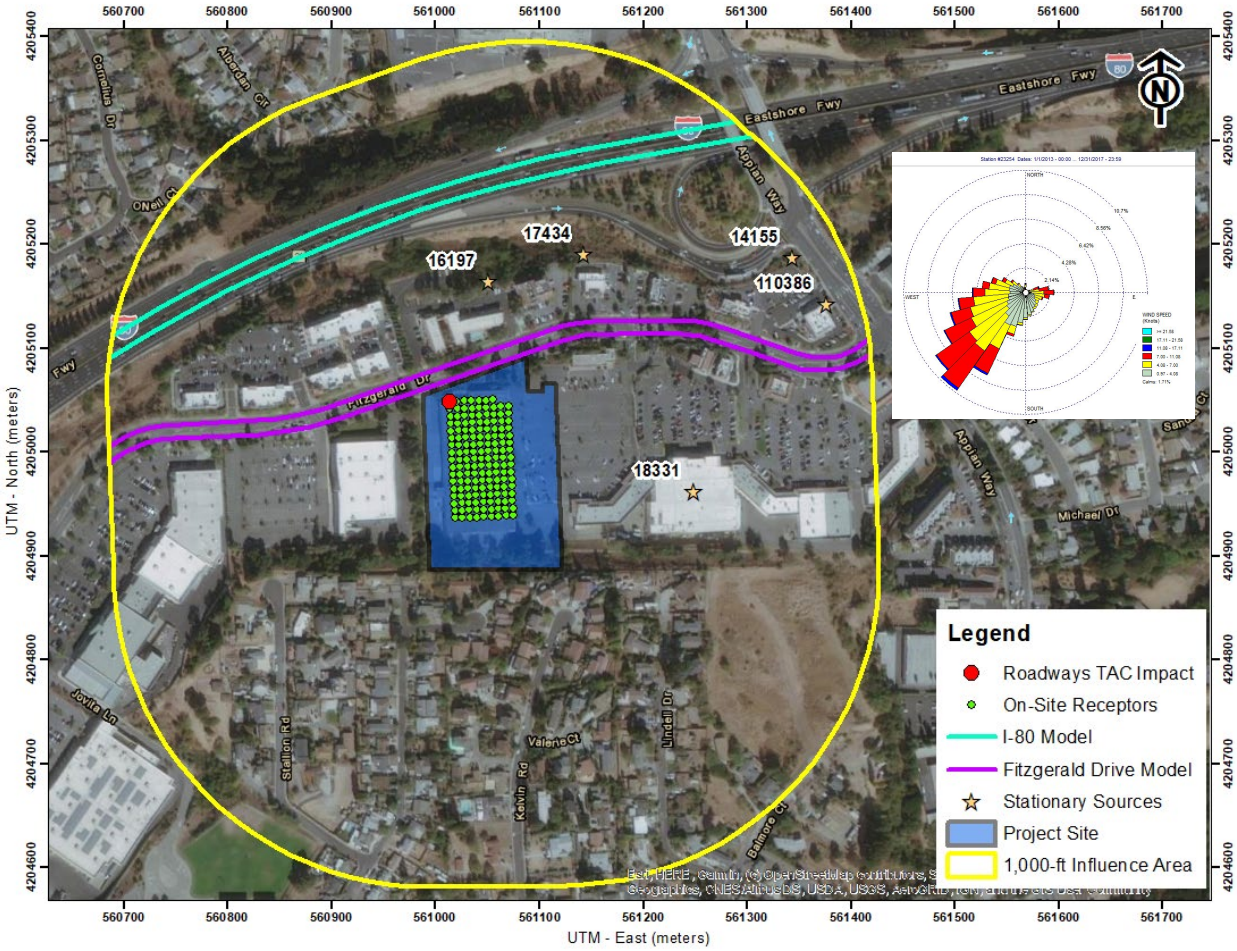
Combined Community Health Risk at Project Site

Community risk impacts from the existing TAC sources upon the project site are reported in Table 8. The risks from the singular TAC sources are compared against the BAAQMD single-source threshold. The risks from all the sources are then combined and compared against the BAAQMD cumulative-source threshold. As shown, the cancer risk, annual $PM_{2.5}$ concentrations, and HI from the nearby sources do not exceed their single-source or cumulative-source thresholds.

Table 8. Cumulative Community Risk Impacts Upon the On-site Sensitive Receptors

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Interstate 80	6.35	0.23	<0.01
Fitzgerald Drive, ADT 15,746	2.46	0.21	<0.01
West County Wastewater District (Facility ID #14155, Generator), Project Site at +1,000 feet	0.06	-	-
Target Store T-0737 (Facility ID #17434, Generator), Project Site at 500 feet	<0.01	-	-
7- Eleven Inc. #37994 (Facility ID #110386, Gas Station), Project Site at +1,000 feet	0.77	-	<0.01
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold?	*No*	*No*	*No*
Cumulative Total	9.65	0.44	<0.03
BAAQMD Cumulative Source Threshold	***100***	***0.8***	***10.0***
Exceed Threshold?	*No*	*No*	*No*

Figure 3. Project Site, On-Site Residential Receptors, Roadway Segments Evaluated, Wind Rose, and Locations of Maximum Roadway TAC Impacts



Greenhouse Gas Emissions

Setting

Gases that trap heat in the atmosphere, GHGs, regulate the earth's temperature. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate. The most common GHGs are carbon dioxide (CO_2) and water vapor but there are also several others, most importantly methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These are released into the earth's atmosphere through a variety of natural processes and human activities. Sources of GHGs are generally as follows:

- CO_2, CH_4, and N_2O are byproducts of fossil fuel combustion.
- N_2O is associated with agricultural operations such as fertilization of crops.
- CH_4 is commonly created by off-gassing from agricultural practices (e.g., keeping livestock) and landfill operations.
- Chlorofluorocarbons (CFCs) were widely used as refrigerants, propellants, and cleaning solvents but their production has been stopped by international treaty.
- HFCs are now used as a substitute for CFCs in refrigeration and cooling.
- PFCs and sulfur hexafluoride emissions are commonly created by industries such as aluminum production and semi-conductor manufacturing.

Each GHG has its own potency and effect upon the earth's energy balance. This is expressed in terms of a global warming potential (GWP), with CO_2 being assigned a value of 1 and sulfur hexafluoride being several orders of magnitude stronger. In GHG emission inventories, the weight of each gas is multiplied by its GWP and is measured in units of CO_2 equivalents (CO_2e).

An expanding body of scientific research supports the theory that global climate change is currently affecting changes in weather patterns, average sea level, ocean acidification, chemical reaction rates, and precipitation rates, and that it will increasingly do so in the future. The climate and several naturally occurring resources within California are adversely affected by the global warming trend. Increased precipitation and sea level rise will increase coastal flooding, saltwater intrusion, and degradation of wetlands. Mass migration and/or loss of plant and animal species could also occur. Potential effects of global climate change that could adversely affect human health include more extreme heat waves and heat-related stress; an increase in climate-sensitive diseases; more frequent and intense natural disasters such as flooding, hurricanes and drought; and increased levels of air pollution.

Recent Regulatory Actions for GHG Emissions

Executive Order S-3-05 – California GHG Reduction Targets

Executive Order (EO) S-3-05 was signed by Governor Arnold Schwarzenegger in 2005 to set GHG emission reduction targets for California. The three targets established by this EO are as follows: (1) reduce California's GHG emissions to 2000 levels by 2010, (2) reduce California's GHG emissions to 1990 levels by 2020, and (3) reduce California's GHG emissions by 80 percent below 1990 levels by 2050.

Assembly Bill 32 – California Global Warming Solutions Act (2006)

Assembly Bill (AB) 32, the Global Warming Solutions Act of 2006, codified the State's GHG emissions target by directing CARB to reduce the State's global warming emissions to 1990 levels by 2020. AB 32 was signed and passed into law by Governor Schwarzenegger on September 27, 2006. Since that time, the CARB, CEC, California Public Utilities Commission (CPUC), and Building Standards Commission have all been developing regulations that will help meet the goals of AB 32 and Executive Order S-3-05, which has a target of reducing GHG emissions 80 percent below 1990 levels.

A Scoping Plan for AB 32 was adopted by CARB in December 2008. It contains the State's main strategies to reduce GHGs from business-as-usual emissions projected in 2020 back down to 1990 levels. Business-As-Usual (BAU) is the projected emissions in 2020, including increases in emissions caused by growth, without any GHG reduction measures. The Scoping Plan has a range of GHG reduction actions, including direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system.

As directed by AB 32, CARB has also approved a statewide GHG emissions limit. On December 6, 2007, CARB staff resolved an amount of 427 million metric tons (MMT) of CO_2e as the total statewide GHG 1990 emissions level and 2020 emissions limit. The limit is a cumulative statewide limit, not a sector- or facility-specific limit. CARB updated the future 2020 BAU annual emissions forecast, in light of the economic downturn, to 545 MMT of CO_2e. Two GHG emissions reduction measures currently enacted that were not previously included in the 2008 Scoping Plan baseline inventory were included, further reducing the baseline inventory to 507 MMT of CO_2e. Thus, an estimated reduction of 80 MMT of CO_2e is necessary to reduce statewide emissions to meet the AB 32 target by 2020.

Executive Order B-30-15 & Senate Bill 32 GHG Reduction Targets – 2030 GHG Reduction Target

In April 2015, Governor Brown signed EO B-30-15, which extended the goals of AB 32, setting a greenhouse gas emissions target at 40 percent of 1990 levels by 2030. On September 8, 2016, Governor Brown signed Senate Bill (SB) 32, which legislatively established the GHG reduction target of 40 percent of 1990 levels by 2030. In November 2017, CARB issued *California's 2017 Climate Change Scoping Plan*. [28] While the State is on track to exceed the AB 32 scoping plan 2020 targets, this plan is an update to reflect the enacted SB 32 reduction target.

SB 32 was passed in 2016, which codified a 2030 GHG emissions reduction target of 40 percent below 1990 levels. CARB is currently working on a second update to the Scoping Plan to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. The proposed Scoping Plan Update was published on January 20, 2017 as directed by SB 32 companion legislation AB 197. The mid-term 2030 target is considered critical by CARB on the path to obtaining an even deeper GHG emissions target of 80 percent below 1990 levels by 2050, as directed in Executive

[28] California Air Resource Board, 2017. *California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Targets.* November. Web: https://ww2.arb.ca.gov/sites/default/files/classic//cc/scopingplan/scoping_plan_2017.pdf

Order S-3-05. The Scoping Plan outlines the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure, providing a blueprint to continue driving down GHG emissions and obtain the statewide goals.

The new Scoping Plan establishes a strategy that will reduce GHG emissions in California to meet the 2030 target (note that the AB 32 Scoping Plan only addressed 2020 targets and a long-term goal). Key features of this plan are:

- Cap and Trade program places a firm limit on 80 percent of the State's emissions;
- Achieving a 50-percent Renewable Portfolio Standard by 2030 (currently at about 29 percent statewide);
- Increase energy efficiency in existing buildings;
- Develop fuels with an 18-percent reduction in carbon intensity;
- Develop more high-density, transit-oriented housing;
- Develop walkable and bikeable communities;
- Greatly increase the number of electric vehicles on the road and reduce oil demand in half;
- Increase zero-emissions transit so that 100 percent of new buses are zero emissions;
- Reduce freight-related emissions by transitioning to zero emissions where feasible and near-zero emissions with renewable fuels everywhere else; and
- Reduce "super pollutants" by reducing methane and hydrofluorocarbons by 40 percent.

In the updated Scoping Plan, CARB recommends statewide targets of no more than 6 metric tons CO_2e per capita (statewide) by 2030 and no more than 2 metric tons CO_2e per capita by 2050. The statewide per capita targets account for all emissions sectors in the State, statewide population forecasts, and the statewide reductions necessary to achieve the 2030 statewide target under SB 32 and the longer-term State emissions reduction goal of 80 percent below 1990 levels by 2050.

Executive Order B-55-18 – Carbon Neutrality

In 2018, a new statewide goal was established to achieve carbon neutrality as soon as possible, but no later than 2045, and to maintain net negative emissions thereafter. CARB and other relevant state agencies are tasked with establishing sequestration targets and create policies/programs that would meet this goal.

Senate Bill 375 – California's Regional Transportation and Land Use Planning Efforts (2008)

California enacted legislation (SB 375) to expand the efforts of AB 32 by controlling indirect GHG emissions caused by urban sprawl. SB 375 provides incentives for local governments and applicants to implement new conscientiously planned growth patterns. This includes incentives for creating attractive, walkable, and sustainable communities and revitalizing existing communities. The legislation also allows applicants to bypass certain environmental reviews under CEQA if they build projects consistent with the new sustainable community strategies. Development of more alternative transportation options that would reduce vehicle trips and miles traveled, along with traffic congestion, would be encouraged. SB 375 enhances CARB's ability to reach the AB 32 goals by directing the agency in developing regional GHG emission reduction targets to be achieved from the transportation sector for 2020 and 2035. CARB works with the metropolitan

planning organizations (e.g., Association of Bay Area Governments [ABAG] and Metropolitan Transportation Commission [MTC]) to align their regional transportation, housing, and land use plans to reduce vehicle miles traveled and demonstrate the region's ability to attain its GHG reduction targets. A similar process is used to reduce transportation emissions of ozone precursor pollutants in the Bay Area.

Senate Bill 350 - Renewable Portfolio Standards

In September 2015, the California Legislature passed SB 350, which increases the states Renewables Portfolio Standard (RPS) for content of electrical generation from the 33 percent target for 2020 to a 50 percent renewables target by 2030.

Senate Bill 100 – Current Renewable Portfolio Standards

In September 2018, SB 100 was signed by Governor Brown to revise California's RPS program goals, furthering California's focus on using renewable energy and carbon-free power sources for its energy needs. The bill would require all California utilities to supply a specific percentage of their retail sales from renewable resources by certain target years. By December 31, 2024, 44 percent of the retails sales would need to be from renewable energy sources, by December 31, 2026 the target would be 40 percent, by December 31, 2017 the target would be 52 percent, and by December 31, 2030 the target would be 60 percent. By December 31, 2045, all California utilities would be required to supply retail electricity that is 100 percent carbon-free and sourced from eligible renewable energy resource to all California end-use customers.

California Building Standards Code – Title 24 Part 11 & Part 6

The California Green Building Standards Code (CALGreen Code) is part of the California Building Standards Code under Title 24, Part 11.[29] The CALGreen Code encourages sustainable construction standards that involve planning/design, energy efficiency, water efficiency resource efficiency, and environmental quality. These green building standard codes are mandatory statewide and are applicable to residential and non-residential developments. The most recent CALGreen Code (2019 California Building Standard Code) was effective as of January 1, 2020.

The California Building Energy Efficiency Standards (California Energy Code) is under Title 24, Part 6 and is overseen by the California Energy Commission (CEC). This code includes design requirements to conserve energy in new residential and non-residential developments, while being cost effective for homeowners. This Energy Code is enforced and verified by cities during the planning and building permit process. The current energy efficiency standards (2019 Energy Code) replaced the 2016 Energy Code as of January 1,2020. Under the 2019 standards, single-family homes are predicted to be 53 percent more efficient than homes built under the 2016 standard due more stringent energy-efficiency standards and mandatory installation of solar photovoltaic systems. For nonresidential developments, it is predicted that these buildings will use 30 percent less energy due to lightening upgrades.[30]

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[29] See: https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen#:~:text=CALGreen%20is%20the%20first%2Din,to%201990%20levels%20by%202020.
[30] See: https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

Federal and Statewide GHG Emissions

The U.S. EPA reported that in 2018, total gross nationwide GHG emissions were 6,676.6 million metric tons (MMT) carbon dioxide equivalent (CO_2e).[31] These emissions were lower than peak levels of 7,416 MMT that were emitted in 2007. CARB updates the statewide GHG emission inventory on an annual basis where the latest inventory includes 2000 through 2017 emissions.[32] In 2017, GHG emissions from statewide emitting activities were 424 MMT. The 2017 emissions have decreased by 14 percent since peak levels in 2004 and are 7 MMT below the 1990 emissions level and the State's 2020 GHG limit. Per capita GHG emissions in California have dropped from a 2001 peak of 14.1 MT per person to 10.7 MT per person in 2017. The most recent Bay Area emission inventory was computed for the year 2011.[33] The Bay Area GHG emission were 87 MMT. As a point of comparison, statewide emissions were about 444 MMT in 2011

City of Pinole General Plan Update

The Pinole General Plan Update[34] outlines the long-range policy framework to guide decision-making related to sustainability and stewardship, community tapestry, and fiscal responsibly and economic health. The Health and Safety Element and Sustainability Element includes goals, policies and actions focused on improving air quality and reducing GHG emissions. The following goals, policies, and actions are applicable to the proposed project:

POLICY HS.6.2 Reduce greenhouse gas emissions.

GOAL SE.3 The City will reduce its contribution to climate change and mitigate and adapt to the effects of climate change as appropriate.

POLICY SE.3.1 Reduce greenhouse gas emissions from City operations and community sources by a minimum of 15 percent below current or baseline levels by the year 2020.

ACTION SE.3.1.1 Complete the in-progress Greenhouse Gas Emissions Inventory for Government Operations and the community (or Planning Area) consistent with State or other accepted protocol. The Inventory shall provide a business-as-usual forecast for GHG emissions for 2020 and 2030.

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[31] United States Environmental Protection Agency, 2020. *Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2018*. April. Web: https://www.epa.gov/sites/production/files/2020-04/documents/us-ghg-inventory-2020-main-text.pdf

[32] CARB. 2019. *2019 Edition, California Greenhouse Gas Emission Inventory: 2000 – 2017*. Web: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2017/ghg_inventory_trends_00-17.pdf

[33] BAAQMD. 2015. *Bay Area Emissions Inventory Summary Report: Greenhouse Gases Base Year 2011*. January. Web: http://www.baaqmd.gov/~/media/files/planning-and-research/emission-inventory/by2011_ghgsummary.pdf accessed Nov. 26, 2019.

[34] City of Pinole, *Pinole Genera Plan Update*, November 2010. Web: https://p1cdn4static.civiclive.com/UserFiles/Servers/Server_10946972/File/City%20Government/Planning/General%20Plan/City_of_Pinole_2010_General_Plan%20with%202015-2023%20Housing%20Element%20Update.pdf

ACTION SE.3.1.2 Within 12 months of completion of a baseline GHG Inventory, initiate development of a Climate Action Plan that identifies how the City will achieve its 15% reduction target by 2020, at a minimum.

POLICY SE.3.4 Reduce GHG emissions by reducing vehicle miles traveled and by increasing or encouraging the use of alternative fuels and transportation technologies.

GOAL SE.4 Optimize energy efficiency and renewable energy.

Although the City has goals, policies, and action items to be consistent with the State's GHG reduction targets, the City does not have a Climate Action Plan (CAP), a CAP Compliance Checklist, or a specific metric ton GHG threshold for project-level construction or operation. Therefore, the BAAQMD's CEQA Air Quality Guideline's thresholds are used.

BAAQMD GHG Significance Thresholds

The BAAQMD's CEQA Air Quality Guidelines do not use quantified thresholds for projects that are in a jurisdiction with a qualified GHG reductions plan (i.e., a Climate Action Plan). The plan has to address emissions associated with the period that the project would operate (e.g., beyond year 2020). For quantified emissions, the guidelines recommended a GHG threshold of 1,100 metric tons or 4.6 metric tons (MT) per capita. These thresholds were developed based on meeting the 2020 GHG targets set in the scoping plan that addressed AB 32. Development of the project would occur beyond 2020, so a threshold that addresses a future target is appropriate.

Although BAAQMD has not published a quantified threshold for 2030 yet, this assessment uses a "Substantial Progress" efficiency metric of 2.8 MT CO_{2e}/year/service population and a bright-line threshold of 660 MT CO_{2e}/year based on the GHG reduction goals of EO B-30-15. The service population metric of 2.8 is calculated for 2030 based on the 1990 inventory and the projected 2030 statewide population and employment levels. [35] The 2030 bright-line threshold is a 40 percent reduction of the 2020 1,100 MT CO_{2e}/year threshold. Evidence published by the State indicates the AB 32 goal of reducing statewide GHG emissions to 1990 levels was met prior to 2020. Current State plans are to further reduce emissions to 40% below 1990 levels by 2030. Assuming statewide emissions are at 1990 levels or lower in 2020, it would be logical to reduce the BAAQMD-recommended threshold for meeting the AB 32 threshold by 40% to develop a threshold for 2030.

Impact-GHG 1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

GHG emissions associated with development of the proposed project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust and worker and vendor trips. There would also be long-term operational emissions associated with vehicular traffic within the project vicinity, energy and water usage, and solid waste disposal.

[35] Bay Area Air Quality Management District, 2016. *CLE International 12th Annual Super-Conference CEQA Guidelines, Case Law and Policy Update*. December.

Emissions for the proposed project are discussed below and were analyzed using the methodology recommended in the BAAQMD CEQA Air Quality Guidelines.

CalEEMod Modeling

CalEEMod was used to predict GHG emissions from operation of the site assuming full build-out of the project. The project land use types and size and other project-specific information were input to the model, as described above within the operational period emissions. CalEEMod output is included in *Attachment 2*.

Service Population

The project service population efficiency rate is based on the number of future residents. For this project, the number of future residents was estimated by multiplying the total number of units (i.e., 223 units) by the persons per household rate for the City of Pinole found in the California Department of Finance Population and Housing Estimate report.[36] Using the 2.80 person per household 2020 rate, the number of futures residents and service population used for the analysis was estimated to be 624 residents.

Construction GHG Emissions

GHG emissions associated with construction were computed to be 588 MT of CO_2e for the total construction period. These are the emissions from on-site operation of construction equipment, vendor and hauling truck trips, and worker trips. Neither the City nor BAAQMD have an adopted threshold of significance for construction related GHG emissions, though BAAQMD recommends quantifying emissions and disclosing that GHG emissions would occur during construction. BAAQMD also encourages the incorporation of best management practices to reduce GHG emissions during construction where feasible and applicable.

Operational GHG Emissions

The CalEEMod model, along with the project vehicle trip generation rates and unmitigated VMT adjustment factor, was used to estimate daily emissions associated with operation of the fully developed site under the proposed project. As shown in Table 9, the annual emissions resulting from operation of the proposed project are predicted to be 1,216 MT of CO_2e in 2025 and 1,125 MT of CO_2e in 2030. The service population emission for the year 2025 and 2030 are predicted to be 1.9 and 1.8 MT CO_{2e}/year/service population, respectively.

To be considered an exceedance, the project must exceed both the GHG significance threshold in metric tons per year and the service population significance threshold in the future year of 2030. While the project would exceed the annual emissions bright-line threshold of 660 MT CO_2e/year, it would not exceed the per capita threshold of 2.8 MT CO_{2e}/year/service population in 2030. Therefore, the project would not be in exceedance for GHG emissions.

[36] State of California, Department of Finance, *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2011-2021 with 2010 Census Benchmark*. Sacramento, California. Available at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-5/.

Table 9. Annual Project GHG Emissions (CO_2e) in Metric Tons and Per Capita

Source Category	Proposed Project	
	2025	**2030**
Area	12	12
Energy Consumption	185	185
Mobile	948	857
Solid Waste Generation	52	52
Water Usage	19	19
Total (MT CO_{2e}/year)	**1,216**	**1,125**
Significance Threshold		***660 MT CO_2e/year***
Service Population Emissions (MT CO_{2e}/year/service population)	1.9	1.8
Significance Threshold		***2.8 in 2030***
Exceeds both thresholds?		*No*

Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The proposed project would not conflict or otherwise interfere with the statewide GHG reduction measures identified in CARB's Scoping Plan nor would the project conflict with SB 100 goals. For example, proposed buildings would be constructed in conformance with CALGreen and the Title 24 Building Code, which requires high-efficiency water fixtures, water-efficient irrigation systems, and compliance with current energy efficacy standards.

Supporting Documentation

Attachment 1 is the methodology used to compute community risk impacts, including the methods to compute lifetime cancer risk from exposure to project emissions.

Attachment 2 includes the CalEEMod output for project construction and operational criteria air pollutant and GHG emissions. The operational outputs for existing and 2030 uses are also included in this attachment. Also included are any modeling assumptions.

Attachment 3 includes the EMFAC2021 emissions modeling. The input files for these calculations are voluminous and are available upon request in digital format.

Attachment 4 is the construction health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction. AERMOD dispersion modeling files for this assessment, which are quite voluminous, are available upon request and would be provided in digital format

Attachment 5 includes the cumulative community risk calculations, modeling results, and health risk calculations from sources affecting the construction MEI and project site receptors.

Attachment 1: Health Risk Calculation Methodology

A health risk assessment (HRA) for exposure to Toxic Air Contaminates (TACs) requires the application of a risk characterization model to the results from the air dispersion model to estimate potential health risk at each sensitive receptor location. The State of California Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB) develop recommended methods for conducting health risk assessments. The most recent OEHHA risk assessment guidelines were published in February of 2015.[37] These guidelines incorporate substantial changes designed to provide for enhanced protection of children, as required by State law, compared to previous published risk assessment guidelines. CARB has provided additional guidance on implementing OEHHA's recommended methods.[38] This HRA used the 2015 OEHHA risk assessment guidelines and CARB guidance. The BAAQMD has adopted recommended procedures for applying the newest OEHHA guidelines as part of Regulation 2, Rule 5: New Source Review of Toxic Air Contaminants.[39] Exposure parameters from the OEHHA guidelines and the recent BAAQMD HRA Guidelines were used in this evaluation.

Cancer Risk

Potential increased cancer risk from inhalation of TACs is calculated based on the TAC concentration over the period of exposure, inhalation dose, the TAC cancer potency factor, and an age sensitivity factor to reflect the greater sensitivity of infants and children to cancer causing TACs. The inhalation dose depends on a person's breathing rate, exposure time and frequency and duration of exposure. These parameters vary depending on the age, or age range, of the persons being exposed and whether the exposure is considered to occur at a residential location or other sensitive receptor location.

The current OEHHA guidance recommends that cancer risk be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, they recommend evaluating risks for the third trimester of pregnancy to age zero, ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposures, an ASF of 3 for a child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilogram of body weight per day (L/kg-day) or liters per kilogram of body weight per 8-hour period for the case of worker or school child exposures. As recommended by the BAAQMD for residential exposures, 95th percentile breathing rates are used for the third trimester and infant exposures, and 80th percentile breathing rates for child and adult exposures. For children at schools and daycare facilities, BAAQMD recommends using the 95th percentile 8-hour breathing rates. Additionally, CARB and the BAAQMD recommend the use of a residential exposure duration of

[37] OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.
[38] CARB, 2015. *Risk Management Guidance for Stationary Sources of Air Toxics*. July 23.
[39] BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

30 years for sources with long-term emissions (e.g., roadways). For workers, assumed to be adults, a 25-year exposure period is recommended by the BAAQMD. For school children a 9-year exposure period is recommended by the BAAQMD.

Under previous OEHHA and BAAQMD HRA guidance, residential receptors are assumed to be at their home 24 hours a day, or 100 percent of the time. In the 2015 Risk Assessment Guidance, OEHHA includes adjustments to exposure duration to account for the fraction of time at home (FAH), which can be less than 100 percent of the time, based on updated population and activity statistics. The FAH factors are age-specific and are: 0.85 for third trimester of pregnancy to less than 2 years old, 0.72 for ages 2 to less than 16 years, and 0.73 for ages 16 to 70 years. Use of the FAH factors is allowed by the BAAQMD if there are no schools in the project vicinity have a cancer risk of one in a million or greater assuming 100 percent exposure (FAH = 1.0).

Functionally, cancer risk is calculated using the following parameters and formulas:

Cancer Risk (per million) = $CPF \times Inhalation\ Dose \times ASF \times ED/AT \times FAH \times 10^6$

Where:

CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = $C_{air} \times DBR^* \times A \times (EF/365) \times 10^{-6}$

Where:

C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
8HrBR = 8-hour breathing rate (L/kg body weight-8 hours)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

The health risk parameters used in this evaluation are summarized as follows:

Parameter	***Exposure Type →***	**Infant**		**Child**	**Adult**
	Age Range →	**3rd Trimester**	**0<2**	**2 < 16**	**16 - 30**
DPM Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$		1.10E+00	1.10E+00	1.10E+00	1.10E+00
Daily Breathing Rate (L/kg-day) 80th Percentile Rate		273	758	572	261
Daily Breathing Rate (L/kg-day) 95th Percentile Rate		361	1,090	745	335
8-hour Breathing Rate (L/kg-8 hours) 95th Percentile Rate		-	1,200	520	240
Inhalation Absorption Factor		1	1	1	1
Averaging Time (years)		70	70	70	70
Exposure Duration (years)		0.25	2	14	14*
Exposure Frequency (days/year)		350	350	350	350*
Age Sensitivity Factor		10	10	3	1
Fraction of Time at Home (FAH)		0.85-1.0	0.85-1.0	0.72-1.0	0.73*
* An 8-hour breathing rate (8HrBR) is used for worker and school child exposures.					

Non-Cancer Hazards

Non-cancer health risk is usually determined by comparing the predicted level of exposure to a chemical to the level of exposure that is not expected to cause any adverse effects (reference exposure level), even to the most susceptible people. Potential non-cancer health hazards from TAC exposure are expressed in terms of a hazard index (HI), which is the ratio of the TAC concentration to a reference exposure level (REL). OEHHA has defined acceptable concentration levels for contaminants that pose non-cancer health hazards. TAC concentrations below the REL are not expected to cause adverse health impacts, even for sensitive individuals. The total HI is calculated as the sum of the HIs for each TAC evaluated and the total HI is compared to the BAAQMD significance thresholds to determine whether a significant non-cancer health impact from a project would occur.

Typically, for residential projects located near roadways with substantial TAC emissions, the primary TAC of concern with non-cancer health effects is diesel particulate matter (DPM). For DPM, the chronic inhalation REL is 5 micrograms per cubic meter ($\mu g/m^3$).

Annual $PM_{2.5}$ Concentrations

While not a TAC, fine particulate matter ($PM_{2.5}$) has been identified by the BAAQMD as a pollutant with potential non-cancer health effects that should be included when evaluating potential community health impacts under the California Environmental Quality Act (CEQA). The thresholds of significance for $PM_{2.5}$ (project level and cumulative) are in terms of an increase in the annual average concentration. When considering $PM_{2.5}$ impacts, the contribution from all sources of $PM_{2.5}$ emissions should be included. For projects with potential impacts from nearby local roadways, the $PM_{2.5}$ impacts should include those from vehicle exhaust emissions, $PM_{2.5}$ generated from vehicle tire and brake wear, and fugitive emissions from re-suspended dust on the roads.

Attachment 2: CalEEMod Modeling Inputs and Outputs

Air Quality/Noise Construction Information Data Request

Project Name: **Pinole Mixed-Use**

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size	223	Dwelling Units	5.93 acres total project acres disturbed
	263,862	s.f. residential	
	0	s.f. retail	
	0	s.f. office/commercial	
	0	s.f. other, specify:	
	0	s.f. parking garage	spaces
	91,730	s.f. parking lot	275 spaces
Construction Hours		am to	pm

Pile Driving? Y/N? No.

Project include on-site GENERATOR OR FIRE PUMP during project OPERATION? Y/N? ____No.

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: _____

Fuel Type: _____

Location in project (Plans Desired if Available):

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
	Demolition	**Start Date:**	**9/5/2022**	**Total phase:**	**25**			**Overall Import/Export Volumes**
		End Date:	**10/10/2022**					
	Concrete/Industrial Saws	81	0.73			0	0	**Demolition Volume**
2	Excavators	158	0.38	7	25	7	21014	Square footage of buildings to be demolished
	Rubber-Tired Dozers	247	0.4			0	0	(*or* total tons to be hauled)
	Tractors/Loaders/Backhoes	97	0.37			0	0	**_91,342_** square feet *or*
	Other Equipment?							**_?_** Hauling volume (tons)
								Any pavement demolished and hauled? **_2980_ tons**
	Site Preparation	**Start Date:**	**10/10/2022**	**Total phase:**	**10**			
		End Date:	**10/24/2022**					
1	Graders	187	0.41	7	10	7	5367	
	Rubber Tired Dozers	247	0.4			0	0	
	Tractors/Loaders/Backhoes	97	0.37			0	0	
	Other Equipment?							
	Grading / Excavation	**Start Date:**	**10/24/2022**	**Total phase:**	**10**			
		End Date:	**11/7/2022**					**Soil Hauling Volume**
2	Excavators	158	0.38	7	10	7	8406	Export volume = **_100_** cubic yards
	Graders	187	0.41			0	0	Import volume = **_100_** cubic yards
	Rubber Tired Dozers	247	0.4			0	0	
	Concrete/Industrial Saws	81	0.73			0	0	
1	Tractors/Loaders/Backhoes	97	0.37	7	10	7	2512	
	Other Equipment?							
	Trenching/Foundation	**Start Date:**	**11/7/2022**	**Total phase:**	**60**			
		End Date:	**2/6/2023**					
1	Tractor/Loader/Backhoe	97	0.37	7	60	7	15074	
1	Excavators	158	0.38	7	60	7	25217	
	Other Equipment?							
	Building - Exterior	**Start Date:**	**2/6/2023**	**Total phase:**	**382**			**Cement Trucks? _150_ Total Round-Trips**
		End Date:	**8/12/2024**					
	Cranes	231	0.29			0	0	Electric? (Y/N) _Y__ Otherwise assumed diesel
2	Forklifts	89	0.2	4	88	0.92146597	12531	Liquid Propane (LPG)? (Y/N) _Y__ Otherwise Assumed diesel
	Generator Sets	84	0.74			0	0	Or temporary line power? (Y/N) _Y__
	Tractors/Loaders/Backhoes	97	0.37			0	0	
	Welders	46	0.45			0	0	
	Air Compressors					0	0	
Building - Interior/Architectural Coating		**Start Date:**	**2/6/2023**	**Total phase:**	**382**			
		End Date:	**8/12/2024**					
2	Air Compressors	78	0.48	4	88	0.92146597	26358	
2	Aerial Lift	62	0.31	2	88	0.46073298	6765	
	Other Equipment?							
	Paving	**Start Date:**	**8/12/2024**	**Total phase:**	**20**			
		End Date:	**9/6/2024**					
1	Cement and Mortar Mixers	9	0.56	2	20	2	202	
	Pavers	130	0.42			0	0	**Asphalt? _1132__ cubic yards or __114__ round trips**
1	Paving Equipment	132	0.36	4	4	0.8	760	
2	Rollers	80	0.38	2	7	0.7	851	
	Tractors/Loaders/Backhoes	97	0.37			0	0	
	Other Equipment?							
	Additional Phases	**Start Date:**		**Total phase:**				
		End Date:						
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs

Complete one sheet for each project component

It is assumed that water trucks would be used during grading

Add or subtract phases and equipment, as appropriate

Modify horsepower or load factor, as appropriate

Traffic Consultant Trip Gen						CalEEMod Default		
Land Use		Size	Daily Trips	New Trips	Weekday Trip Gen	Weekday	Sat	Sun
Apartmetns Mid Rise	Units	223	1213	1213	***5.44***	5.44	4.91	4.09
						Rev	***4.91***	***4.09***
EXISTING								
Strip Mall	ksf	91.34	2090	2090	***22.88***	44.32	42.04	20.43
						Rev	***21.70***	***10.55***
Net Daily Trips				-877				

Table 2 – Trip Generation Summary

Land Use	Units	Daily		AM Peak Hour				PM Peak Hour			
		Rate	Trips	Rate	Trips	In	Out	Rate	Trips	In	Out
Existing											
Department Store	91.34 ksf	22.88	-2,090	0.58	-53	-34	-19	1.95	-178	-89	-89
Proposed											
Multi-Family Housing	214 du	5.44	1,164	0.36	77	20	57	0.44	94	57	37
Net Difference			**-926**		**24**	**-14**	**38**		**-84**	**-32**	**-52**

Note: ksf = 1,000 square feet; du = dwelling unit

DRAFT

Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	**CO2e**	
Year	Tons				MT	
Construction Equipment						
2022	0.02	0.15	0.01	0.01	30.61	
2023	1.17	0.11	0.01	0.01	21.19	
2024	0.73	0.05	0.00	0.00	10.12	
EMFAC						
2022	0.03	0.09	0.01	0.002	86.44	
2023	0.08	0.23	0.02	0.007	262.65	
2024	0.05	0.15	0.01	0.005	176.56	
Total Construction Emissions by Year						
2022	0.04	0.23	0.01	0.01	117.06	
2023	1.25	0.33	0.02	0.01	283.84	
2024	0.78	0.20	0.01	0.01	186.68	
	Total Construction Emissions					
Tons	2.07	0.76	0.05	0.03	587.57	
Pounds/Workdays	*Average Daily Emissions*				Workdays	
2022	1.00	5.47	0.30	0.21		**84**
2023	9.53	2.55	0.18	0.10		**261**
2024	8.71	2.21	0.17	0.08		**179**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Total Construction Emissions					
Pounds	19.24	10.23	0.65	0.38	0.00	
Average	7.89	2.91	0.20	0.11	0.00	524.0
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		
Year	Tons					
Total	2.06	0.65	0.93	0.25		
	Net Annual Operational Emissions					
Tons/year	2.06	0.65	0.93	0.25		
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**		
	Average Daily Emissions					
Pounds Per Day	11.30	3.56	5.09	1.37		
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**		
	Existing/Reuse Use Emissions					
Tons/year	1.64	0.71	1.01	0.26		
Pounds Per Day	8.99	3.89	5.53	1.42		

Category	**CO2e**			
	Project	Existing	Project 2030	Existing
Area	11.74	0.00	11.74	0.00
Energy	185.05	113.70	185.05	113.70
Mobile	948.36	1070.94	856.92	967.56
Waste	51.59	48.23	51.59	48.23
Water	19.26	13.99	19.26	13.99
TOTAL	1215.99	1246.87	1124.55	1143.49
Net GHG Emissions		-30.87		-18.94
Service Population	624			
Per Capita Emissions		1.9		1.8
	223	units		
CA DOF 1920 =	2.8	pphh		

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	223.00	Dwelling Unit	5.93	263,862.00	638
Parking Lot	275.00	Space	0.00	91,730.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Provided land uses - construction worksheet and plans

Construction Phase - Provided construction schedule

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Grading - grading = 100-cy import & 100-cy export

Date: 10/13/2021 4:13 PM

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Demolition - existgin building demo = 91,342-sf

Trips and VMT - 0 trips for EMFAC2021 adjustments, pavement demo = 2,980 tons, building const = 150 cement truck round trips, paving = 114 asphalt truck round trips

Vehicle Trips - Same trip gen as traffic study

Vehicle Emission Factors - EMFAC2021 vehicle emission factors Contra Costa County 2025

Fleet Mix - EMFAC2021 fleet mix Contra Costa County 2025

Woodstoves - No fireplaces or wood, all natural gas

Water And Wastewater - Wastewater treatment 100% aerobic

Construction Off-road Equipment Mitigation - BMPs, Tier 4 interim mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	382.00
tblConstructionPhase	NumDays	230.00	382.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	11/24/2023	7/23/2024
tblConstructionPhase	PhaseEndDate	9/29/2023	7/23/2024
tblConstructionPhase	PhaseEndDate	9/30/2022	10/7/2022
tblConstructionPhase	PhaseEndDate	11/11/2022	11/4/2022
tblConstructionPhase	PhaseEndDate	10/27/2023	9/6/2024
tblConstructionPhase	PhaseEndDate	10/14/2022	10/21/2022
tblConstructionPhase	PhaseStartDate	10/28/2023	2/6/2023
tblConstructionPhase	PhaseStartDate	11/12/2022	2/6/2023
tblConstructionPhase	PhaseStartDate	10/15/2022	10/24/2022
tblConstructionPhase	PhaseStartDate	9/30/2023	8/12/2024
tblConstructionPhase	PhaseStartDate	10/1/2022	10/10/2022
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	33.45	71.36
tblFireplaces	NumberWood	37.91	0.00
tblFleetMix	HHD	7.1590e-003	7.9020e-003
tblFleetMix	HHD	7.1590e-003	7.9020e-003
tblFleetMix	LDA	0.57	0.51
tblFleetMix	LDA	0.57	0.51
tblFleetMix	LDT1	0.06	0.04

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tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.18	0.22
tblFleetMix	LDT2	0.18	0.22
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	5.5170e-003	6.6460e-003
tblFleetMix	LHD2	5.5170e-003	6.6460e-003
tblFleetMix	MCY	0.03	0.02
tblFleetMix	MCY	0.03	0.02
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MH	3.2710e-003	3.3810e-003
tblFleetMix	MH	3.2710e-003	3.3810e-003
tblFleetMix	MHD	7.2310e-003	8.8530e-003
tblFleetMix	MHD	7.2310e-003	8.8530e-003
tblFleetMix	OBUS	5.4500e-004	5.2800e-004
tblFleetMix	OBUS	5.4500e-004	5.2800e-004
tblFleetMix	SBUS	1.3900e-003	7.3500e-004
tblFleetMix	SBUS	1.3900e-003	7.3500e-004
tblFleetMix	UBUS	3.3100e-004	4.8100e-004
tblFleetMix	UBUS	3.3100e-004	4.8100e-004
tblGrading	MaterialExported	0.00	100.00
tblGrading	MaterialImported	0.00	100.00
tblLandUse	LandUseSquareFeet	223,000.00	263,862.00
tblLandUse	LandUseSquareFeet	110,000.00	91,730.00
tblLandUse	LotAcreage	5.87	5.93
tblLandUse	LotAcreage	2.47	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.31	0.31

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tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

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tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.80
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	415.00	0.00
tblTripsAndVMT	HaulingTripNumber	25.00	0.00
tblTripsAndVMT	VendorTripNumber	39.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	199.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblVehicleEF	HHD	0.02	0.23
tblVehicleEF	HHD	0.05	0.11
tblVehicleEF	HHD	6.26	5.17
tblVehicleEF	HHD	0.40	0.76
tblVehicleEF	HHD	5.2340e-003	5.8600e-004
tblVehicleEF	HHD	1,019.51	816.29

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tblVehicleEF	HHD	1,381.70	1,585.34
tblVehicleEF	HHD	0.04	9.0660e-003
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.22	0.25
tblVehicleEF	HHD	9.0000e-006	4.0000e-006
tblVehicleEF	HHD	5.29	4.09
tblVehicleEF	HHD	2.65	1.80
tblVehicleEF	HHD	2.36	2.73
tblVehicleEF	HHD	2.5120e-003	2.2060e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.4040e-003	2.1050e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.7970e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	7.2000e-005
tblVehicleEF	HHD	7.5000e-005	2.2000e-005
tblVehicleEF	HHD	0.42	0.33
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.6000e-005	1.9500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.4890e-003	7.1330e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	7.2000e-005
tblVehicleEF	HHD	7.5000e-005	2.2000e-005

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tblVehicleEF	HHD	0.49	0.59
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.07	0.13
tblVehicleEF	HHD	3.6000e-005	1.9500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	LDA	1.5730e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.07
tblVehicleEF	LDA	0.49	0.62
tblVehicleEF	LDA	2.06	2.95
tblVehicleEF	LDA	231.46	249.57
tblVehicleEF	LDA	49.16	64.98
tblVehicleEF	LDA	3.8640e-003	4.0970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.24
tblVehicleEF	LDA	0.04	7.0320e-003
tblVehicleEF	LDA	1.2700e-003	1.1570e-003
tblVehicleEF	LDA	1.6650e-003	1.9400e-003
tblVehicleEF	LDA	0.02	2.4610e-003
tblVehicleEF	LDA	1.1690e-003	1.0650e-003
tblVehicleEF	LDA	1.5310e-003	1.7840e-003
tblVehicleEF	LDA	0.04	0.30
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	5.7590e-003	7.1520e-003
tblVehicleEF	LDA	0.03	0.23
tblVehicleEF	LDA	0.19	0.30
tblVehicleEF	LDA	2.2900e-003	2.4670e-003
tblVehicleEF	LDA	4.8600e-004	6.4200e-004

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tblVehicleEF	LDA	0.04	0.30
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	8.3700e-003	0.01
tblVehicleEF	LDA	0.03	0.23
tblVehicleEF	LDA	0.21	0.33
tblVehicleEF	LDT1	3.3010e-003	5.4260e-003
tblVehicleEF	LDT1	0.06	0.11
tblVehicleEF	LDT1	0.78	1.27
tblVehicleEF	LDT1	2.24	5.32
tblVehicleEF	LDT1	278.85	325.41
tblVehicleEF	LDT1	59.88	86.37
tblVehicleEF	LDT1	5.5760e-003	8.6950e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.06	0.11
tblVehicleEF	LDT1	0.22	0.39
tblVehicleEF	LDT1	0.04	8.9010e-003
tblVehicleEF	LDT1	1.5500e-003	1.7770e-003
tblVehicleEF	LDT1	2.0750e-003	2.8970e-003
tblVehicleEF	LDT1	0.02	3.1150e-003
tblVehicleEF	LDT1	1.4260e-003	1.6350e-003
tblVehicleEF	LDT1	1.9080e-003	2.6640e-003
tblVehicleEF	LDT1	0.08	0.63
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.08	0.50
tblVehicleEF	LDT1	0.28	0.55
tblVehicleEF	LDT1	2.7590e-003	3.2170e-003

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tblVehicleEF	LDT1	5.9300e-004	8.5400e-004
tblVehicleEF	LDT1	0.08	0.63
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.50
tblVehicleEF	LDT1	0.31	0.60
tblVehicleEF	LDT2	2.5820e-003	2.5090e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.66	0.75
tblVehicleEF	LDT2	2.64	3.52
tblVehicleEF	LDT2	295.77	335.88
tblVehicleEF	LDT2	63.81	85.87
tblVehicleEF	LDT2	5.2630e-003	5.6420e-003
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.24	0.32
tblVehicleEF	LDT2	0.04	8.5260e-003
tblVehicleEF	LDT2	1.3070e-003	1.2910e-003
tblVehicleEF	LDT2	1.6630e-003	2.0710e-003
tblVehicleEF	LDT2	0.02	2.9840e-003
tblVehicleEF	LDT2	1.2030e-003	1.1870e-003
tblVehicleEF	LDT2	1.5290e-003	1.9040e-003
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	0.12	0.08
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	9.5660e-003
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	0.27	0.37

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tblVehicleEF	LDT2	2.9260e-003	3.3200e-003
tblVehicleEF	LDT2	6.3100e-004	8.4900e-004
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	0.12	0.08
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	0.30	0.40
tblVehicleEF	LHD1	4.6450e-003	4.9710e-003
tblVehicleEF	LHD1	7.8330e-003	7.8630e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.19
tblVehicleEF	LHD1	0.72	0.83
tblVehicleEF	LHD1	0.97	1.97
tblVehicleEF	LHD1	9.02	8.87
tblVehicleEF	LHD1	764.24	767.43
tblVehicleEF	LHD1	10.67	16.34
tblVehicleEF	LHD1	8.1800e-004	7.3000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.85	0.79
tblVehicleEF	LHD1	0.29	0.41
tblVehicleEF	LHD1	9.3500e-004	8.0100e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.9160e-003	9.6050e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.2400e-004	1.9000e-004
tblVehicleEF	LHD1	8.9500e-004	7.6700e-004

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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4790e-003	2.4010e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0600e-004	1.7500e-004
tblVehicleEF	LHD1	1.7030e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8600e-004	0.00
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.20	0.16
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	7.4500e-003	7.4820e-003
tblVehicleEF	LHD1	1.0600e-004	1.6200e-004
tblVehicleEF	LHD1	1.7030e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.8600e-004	0.00
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.20	0.16
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD2	2.8090e-003	2.8000e-003
tblVehicleEF	LHD2	6.5690e-003	7.0700e-003
tblVehicleEF	LHD2	6.7610e-003	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.61	0.56
tblVehicleEF	LHD2	0.53	1.04
tblVehicleEF	LHD2	14.16	14.19
tblVehicleEF	LHD2	742.13	816.81

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tblVehicleEF	LHD2	6.88	8.60
tblVehicleEF	LHD2	1.8210e-003	1.8110e-003
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.87	0.93
tblVehicleEF	LHD2	0.16	0.21
tblVehicleEF	LHD2	1.4850e-003	1.4620e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.0800e-004	8.2000e-005
tblVehicleEF	LHD2	1.4200e-003	1.3990e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7120e-003	2.7030e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.9000e-005	7.5000e-005
tblVehicleEF	LHD2	7.5900e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.6000e-004	0.00
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3500e-004	1.3600e-004
tblVehicleEF	LHD2	7.1570e-003	7.8550e-003
tblVehicleEF	LHD2	6.8000e-005	8.5000e-005
tblVehicleEF	LHD2	7.5900e-004	0.06
tblVehicleEF	LHD2	0.03	0.01

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.6000e-004	0.00
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	MCY	0.33	0.17
tblVehicleEF	MCY	0.26	0.19
tblVehicleEF	MCY	19.68	13.69
tblVehicleEF	MCY	9.10	8.27
tblVehicleEF	MCY	213.27	189.68
tblVehicleEF	MCY	61.41	50.92
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.6320e-003
tblVehicleEF	MCY	1.16	0.61
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0620e-003	1.9220e-003
tblVehicleEF	MCY	2.9910e-003	3.5170e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9270e-003	1.7990e-003
tblVehicleEF	MCY	2.8130e-003	3.3090e-003
tblVehicleEF	MCY	0.89	4.34
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	0.56	0.00
tblVehicleEF	MCY	2.27	1.15
tblVehicleEF	MCY	0.54	3.83
tblVehicleEF	MCY	1.97	1.45
tblVehicleEF	MCY	2.1100e-003	1.8750e-003
tblVehicleEF	MCY	6.0800e-004	5.0300e-004

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tblVehicleEF	MCY	0.89	0.11
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	0.56	0.00
tblVehicleEF	MCY	2.81	1.38
tblVehicleEF	MCY	0.54	3.83
tblVehicleEF	MCY	2.14	1.58
tblVehicleEF	MDV	3.3980e-003	3.6610e-003
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.76	0.91
tblVehicleEF	MDV	2.94	3.90
tblVehicleEF	MDV	365.80	410.07
tblVehicleEF	MDV	78.10	104.26
tblVehicleEF	MDV	7.6380e-003	8.4220e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.30	0.42
tblVehicleEF	MDV	0.04	8.7320e-003
tblVehicleEF	MDV	1.3970e-003	1.3660e-003
tblVehicleEF	MDV	1.7290e-003	2.1250e-003
tblVehicleEF	MDV	0.02	3.0560e-003
tblVehicleEF	MDV	1.2880e-003	1.2600e-003
tblVehicleEF	MDV	1.5900e-003	1.9530e-003
tblVehicleEF	MDV	0.07	0.39
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.08	0.00
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.34	0.50
tblVehicleEF	MDV	3.6160e-003	4.0510e-003

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tblVehicleEF	MDV	7.7300e-004	1.0310e-003
tblVehicleEF	MDV	0.07	0.39
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.08	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.38	0.54
tblVehicleEF	MH	8.5200e-003	9.7710e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.75	0.85
tblVehicleEF	MH	1.88	2.22
tblVehicleEF	MH	1,486.32	1,667.51
tblVehicleEF	MH	17.29	21.33
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.47	1.61
tblVehicleEF	MH	0.24	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.2200e-004	2.5700e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3000e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.0400e-004	2.3600e-004
tblVehicleEF	MH	0.54	29.31
tblVehicleEF	MH	0.05	7.55
tblVehicleEF	MH	0.22	0.00
tblVehicleEF	MH	0.06	0.07

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tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7100e-004	2.1100e-004
tblVehicleEF	MH	0.54	29.31
tblVehicleEF	MH	0.05	7.55
tblVehicleEF	MH	0.22	0.00
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MHD	4.0000e-003	0.01
tblVehicleEF	MHD	1.8620e-003	0.01
tblVehicleEF	MHD	9.9270e-003	8.8300e-003
tblVehicleEF	MHD	0.44	0.69
tblVehicleEF	MHD	0.24	0.34
tblVehicleEF	MHD	1.13	1.08
tblVehicleEF	MHD	82.82	166.88
tblVehicleEF	MHD	1,095.89	1,212.91
tblVehicleEF	MHD	9.87	8.44
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.13	0.16
tblVehicleEF	MHD	8.1210e-003	5.9700e-003
tblVehicleEF	MHD	0.50	0.94
tblVehicleEF	MHD	1.47	1.09
tblVehicleEF	MHD	1.66	1.42
tblVehicleEF	MHD	4.1500e-004	2.0600e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	7.2330e-003	0.01
tblVehicleEF	MHD	1.2500e-004	1.0600e-004

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tblVehicleEF	MHD	3.9700e-004	1.9710e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.9120e-003	0.01
tblVehicleEF	MHD	1.1500e-004	9.8000e-005
tblVehicleEF	MHD	3.7500e-004	0.03
tblVehicleEF	MHD	0.02	6.6570e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	2.2100e-004	0.00
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.8600e-004	1.5480e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.8000e-005	8.3000e-005
tblVehicleEF	MHD	3.7500e-004	0.03
tblVehicleEF	MHD	0.02	6.6570e-003
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	2.2100e-004	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	OBUS	8.8010e-003	8.8470e-003
tblVehicleEF	OBUS	7.9490e-003	0.01
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.52	0.50
tblVehicleEF	OBUS	0.86	1.08
tblVehicleEF	OBUS	2.78	3.17
tblVehicleEF	OBUS	67.38	67.22
tblVehicleEF	OBUS	1,458.49	1,583.12

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tblVehicleEF	OBUS	21.17	24.03
tblVehicleEF	OBUS	8.4680e-003	8.5450e-003
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.25
tblVehicleEF	OBUS	1.10	1.15
tblVehicleEF	OBUS	0.70	0.70
tblVehicleEF	OBUS	8.3000e-005	2.8200e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	6.0960e-003	0.02
tblVehicleEF	OBUS	2.1200e-004	2.1400e-004
tblVehicleEF	OBUS	8.0000e-005	2.7000e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	5.8080e-003	0.02
tblVehicleEF	OBUS	1.9500e-004	1.9700e-004
tblVehicleEF	OBUS	1.6800e-003	0.12
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	8.1700e-004	0.00
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.09	0.14
tblVehicleEF	OBUS	0.13	0.15
tblVehicleEF	OBUS	6.4300e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	2.0900e-004	2.3800e-004
tblVehicleEF	OBUS	1.6800e-003	0.12
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.09	0.14
tblVehicleEF	OBUS	0.14	0.17
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	2.4230e-003	0.12
tblVehicleEF	SBUS	1.3430e-003	2.8900e-003
tblVehicleEF	SBUS	1.30	1.32
tblVehicleEF	SBUS	0.21	0.64
tblVehicleEF	SBUS	0.19	0.40
tblVehicleEF	SBUS	294.13	181.00
tblVehicleEF	SBUS	970.44	1,030.33
tblVehicleEF	SBUS	1.11	2.47
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	1.1920e-003	3.0200e-003
tblVehicleEF	SBUS	2.14	1.20
tblVehicleEF	SBUS	2.58	2.08
tblVehicleEF	SBUS	1.61	0.54
tblVehicleEF	SBUS	1.3790e-003	8.9100e-004
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.7000e-005	3.3000e-005
tblVehicleEF	SBUS	1.3190e-003	8.5100e-004
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8990e-003	2.7060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.5000e-005	3.1000e-005
tblVehicleEF	SBUS	8.9000e-005	0.01

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tblVehicleEF	SBUS	8.4100e-004	3.4760e-003
tblVehicleEF	SBUS	0.09	0.13
tblVehicleEF	SBUS	4.3000e-005	0.00
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	1.7950e-003	8.0700e-003
tblVehicleEF	SBUS	7.4670e-003	0.02
tblVehicleEF	SBUS	2.7850e-003	1.6140e-003
tblVehicleEF	SBUS	9.2040e-003	9.4530e-003
tblVehicleEF	SBUS	1.1000e-005	2.4000e-005
tblVehicleEF	SBUS	8.9000e-005	0.01
tblVehicleEF	SBUS	8.4100e-004	3.4760e-003
tblVehicleEF	SBUS	0.12	0.24
tblVehicleEF	SBUS	4.3000e-005	0.00
tblVehicleEF	SBUS	0.05	0.16
tblVehicleEF	SBUS	1.7950e-003	8.0700e-003
tblVehicleEF	SBUS	8.1750e-003	0.02
tblVehicleEF	UBUS	1.10	0.28
tblVehicleEF	UBUS	1.4020e-003	0.03
tblVehicleEF	UBUS	8.13	3.34
tblVehicleEF	UBUS	0.22	2.22
tblVehicleEF	UBUS	1,559.19	1,281.30
tblVehicleEF	UBUS	2.71	21.04
tblVehicleEF	UBUS	0.25	0.17
tblVehicleEF	UBUS	3.6400e-003	0.02
tblVehicleEF	UBUS	0.64	0.29
tblVehicleEF	UBUS	0.02	0.22
tblVehicleEF	UBUS	0.08	0.12
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.8830e-003	5.2070e-003

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tblVehicleEF	UBUS	4.6000e-005	1.5100e-004
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1530e-003	7.6240e-003
tblVehicleEF	UBUS	4.6640e-003	4.9730e-003
tblVehicleEF	UBUS	4.3000e-005	1.3900e-004
tblVehicleEF	UBUS	1.2400e-004	0.04
tblVehicleEF	UBUS	9.9700e-004	0.01
tblVehicleEF	UBUS	6.6000e-005	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.2000e-004	0.03
tblVehicleEF	UBUS	4.7780e-003	0.11
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	2.7000e-005	2.0800e-004
tblVehicleEF	UBUS	1.2400e-004	0.04
tblVehicleEF	UBUS	9.9700e-004	0.01
tblVehicleEF	UBUS	6.6000e-005	0.00
tblVehicleEF	UBUS	1.12	0.34
tblVehicleEF	UBUS	1.2000e-004	0.03
tblVehicleEF	UBUS	5.2320e-003	0.12
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

Date: 10/13/2021 4:13 PM

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0152	0.1451	0.2132	3.5000e-004	0.0473	6.8400e-003	0.0541	7.0600e-003	6.2900e-003	0.0134	0.0000	30.3652	30.3652	9.8200e-003	0.0000	30.6107
2023	1.1674	0.1061	0.1582	2.4000e-004	0.0000	5.5300e-003	5.5300e-003	0.0000	5.2800e-003	5.2800e-003	0.0000	21.0786	21.0786	4.4400e-003	0.0000	21.1897
2024	0.7286	0.0514	0.0753	1.2000e-004	0.0000	2.5200e-003	2.5200e-003	0.0000	2.4300e-003	2.4300e-003	0.0000	10.0742	10.0742	1.7300e-003	0.0000	10.1174
Maximum	**1.1674**	**0.1451**	**0.2132**	**3.5000e-004**	**0.0473**	**6.8400e-003**	**0.0541**	**7.0600e-003**	**6.2900e-003**	**0.0134**	**0.0000**	**30.3652**	**30.3652**	**9.8200e-003**	**0.0000**	**30.6107**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	5.0500e-003	0.1469	0.2553	3.5000e-004	0.0213	5.7000e-004	0.0219	3.1800e-003	5.7000e-004	3.7400e-003	0.0000	30.3652	30.3652	9.8200e-003	0.0000	30.6107
2023	1.1590	0.1007	0.1688	2.4000e-004	0.0000	8.9000e-004	8.9000e-004	0.0000	8.9000e-004	8.9000e-004	0.0000	21.0785	21.0785	4.4400e-003	0.0000	21.1896
2024	0.7244	0.0469	0.0778	1.2000e-004	0.0000	5.0000e-004	5.0000e-004	0.0000	5.0000e-004	5.0000e-004	0.0000	10.0742	10.0742	1.7300e-003	0.0000	10.1174
Maximum	**1.1590**	**0.1469**	**0.2553**	**3.5000e-004**	**0.0213**	**8.9000e-004**	**0.0219**	**3.1800e-003**	**8.9000e-004**	**3.7400e-003**	**0.0000**	**30.3652**	**30.3652**	**9.8200e-003**	**0.0000**	**30.6107**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.18**	**2.66**	**-12.36**	**0.00**	**55.00**	**86.84**	**62.62**	**54.96**	**86.00**	**75.64**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-5-2022**	**12-4-2022**	0.1172	0.1111
2	**12-5-2022**	**3-4-2023**	0.1632	0.1643
3	**3-5-2023**	**6-4-2023**	0.3477	0.3430
4	**6-5-2023**	**9-4-2023**	0.3477	0.3430
5	**9-5-2023**	**12-4-2023**	0.3439	0.3393
6	**12-5-2023**	**3-4-2024**	0.3428	0.3393
7	**3-5-2024**	**6-4-2024**	0.3461	0.3430
8	**6-5-2024**	**9-4-2024**	0.1892	0.1861
9	**9-5-2024**	**9-30-2024**	0.0004	0.0003
		Highest	0.3477	0.3430

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2749	0.0268	1.6600	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7700e-003	1.6000e-004	11.7362
Energy	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	183.6301	183.6301	0.0154	3.4700e-003	185.0495
Mobile	0.7774	0.5366	4.6535	0.0101	0.9036	7.7600e-003	0.9113	0.2254	7.2700e-003	0.2327	0.0000	933.4770	933.4770	0.0542	0.0454	948.3628
Waste						0.0000	0.0000		0.0000	0.0000	20.8228	0.0000	20.8228	1.2306	0.0000	51.5876

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water						0.0000	0.0000		0.0000	0.0000	5.1405	10.2403	15.3808	0.0194	0.0114	19.2557
Total	**2.0625**	**0.6501**	**6.3504**	**0.0108**	**0.9036**	**0.0246**	**0.9282**	**0.2254**	**0.0241**	**0.2495**	**25.9633**	**1,138.9656**	**1,164.9289**	**1.3223**	**0.0604**	**1,215.9918**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2749	0.0268	1.6600	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7700e-003	1.6000e-004	11.7362
Energy	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	183.6301	183.6301	0.0154	3.4700e-003	185.0495
Mobile	0.7774	0.5366	4.6535	0.0101	0.9036	7.7600e-003	0.9113	0.2254	7.2700e-003	0.2327	0.0000	933.4770	933.4770	0.0542	0.0454	948.3628
Waste						0.0000	0.0000		0.0000	0.0000	20.8228	0.0000	20.8228	1.2306	0.0000	51.5876
Water						0.0000	0.0000		0.0000	0.0000	5.1405	10.2403	15.3808	0.0194	0.0114	19.2557
Total	**2.0625**	**0.6501**	**6.3504**	**0.0108**	**0.9036**	**0.0246**	**0.9282**	**0.2254**	**0.0241**	**0.2495**	**25.9633**	**1,138.9656**	**1,164.9289**	**1.3223**	**0.0604**	**1,215.9918**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/5/2022	10/7/2022	5	25	
2	Site Preparation	Site Preparation	10/10/2022	10/21/2022	5	10	
3	Grading	Grading	10/24/2022	11/4/2022	5	10	
4	Building Construction	Building Construction	2/6/2023	7/23/2024	5	382	
5	Paving	Paving	8/12/2024	9/6/2024	5	20	
6	Architectural Coating	Architectural Coating	2/6/2023	7/23/2024	5	382	
7	Trenching	Trenching	11/7/2022	1/27/2023	5	60	

Acres of Grading (Site Preparation Phase): 4.38

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 534,321; Residential Outdoor: 178,107; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,504

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	2	0.90	78	0.48
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Building Construction	Cranes	0	0.00	231	0.29
Demolition	Excavators	2	7.00	158	0.38
Grading	Excavators	2	7.00	158	0.38
Building Construction	Forklifts	2	0.90	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Grading	Graders	0	0.00	187	0.41
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	1	0.80	132	0.36
Paving	Rollers	2	0.70	80	0.38
Demolition	Rubber Tired Dozers	0	0.00	247	0.40

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Grading	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Site Preparation	Graders	1	7.00	187	0.41
Paving	Cement and Mortar Mixers	1	2.00	9	0.56
Architectural Coating	Aerial Lifts	2	0.50	63	0.31
Trenching	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Trenching	Excavators	1	7.00	158	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0450	0.0000	0.0450	6.8100e-003	0.0000	6.8100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4300e-003	0.0389	0.0712	1.1000e-004		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	9.9226	9.9226	3.2100e-003	0.0000	10.0029
Total	**4.4300e-003**	**0.0389**	**0.0712**	**1.1000e-004**	**0.0450**	**1.8800e-003**	**0.0468**	**6.8100e-003**	**1.7300e-003**	**8.5400e-003**	**0.0000**	**9.9226**	**9.9226**	**3.2100e-003**	**0.0000**	**10.0029**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0202	0.0000	0.0202	3.0600e-003	0.0000	3.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3900e-003	0.0498	0.0857	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	9.9226	9.9226	3.2100e-003	0.0000	10.0029
Total	**1.3900e-003**	**0.0498**	**0.0857**	**1.1000e-004**	**0.0202**	**1.9000e-004**	**0.0204**	**3.0600e-003**	**1.9000e-004**	**3.2500e-003**	**0.0000**	**9.9226**	**9.9226**	**3.2100e-003**	**0.0000**	**10.0029**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3200e-003	0.0000	2.3200e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0229	7.5100e-003	3.0000e-005		7.3000e-004	7.3000e-004		6.7000e-004	6.7000e-004	0.0000	2.5371	2.5371	8.2000e-004	0.0000	2.5576
Total	**1.8100e-003**	**0.0229**	**7.5100e-003**	**3.0000e-005**	**2.3200e-003**	**7.3000e-004**	**3.0500e-003**	**2.5000e-004**	**6.7000e-004**	**9.2000e-004**	**0.0000**	**2.5371**	**2.5371**	**8.2000e-004**	**0.0000**	**2.5576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0500e-003	0.0000	1.0500e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-004	7.6100e-003	0.0153	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.5371	2.5371	8.2000e-004	0.0000	2.5576
Total	**4.7000e-004**	**7.6100e-003**	**0.0153**	**3.0000e-005**	**1.0500e-003**	**5.0000e-005**	**1.1000e-003**	**1.1000e-004**	**5.0000e-005**	**1.6000e-004**	**0.0000**	**2.5371**	**2.5371**	**8.2000e-004**	**0.0000**	**2.5576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2022

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4900e-003	0.0229	0.0383	6.0000e-005		1.1500e-003	1.1500e-003		1.0500e-003	1.0500e-003	0.0000	5.1647	5.1647	1.6700e-003	0.0000	5.2064
Total	**2.4900e-003**	**0.0229**	**0.0383**	**6.0000e-005**	**1.0000e-005**	**1.1500e-003**	**1.1600e-003**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**5.1647**	**5.1647**	**1.6700e-003**	**0.0000**	**5.2064**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

1500 Fitzgerald Dr, Pinole Vista - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-004	0.0259	0.0445	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.1647	5.1647	1.6700e-003	0.0000	5.2064
Total	**8.6000e-004**	**0.0259**	**0.0445**	**6.0000e-005**	**1.0000e-005**	**1.0000e-004**	**1.1000e-004**	**0.0000**	**1.0000e-004**	**1.0000e-004**	**0.0000**	**5.1647**	**5.1647**	**1.6700e-003**	**0.0000**	**5.2064**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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1500 Fitzgerald Dr, Pinole Vista - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7100e-003	0.0254	0.0303	4.0000e-005		1.5700e-003	1.5700e-003		1.4400e-003	1.4400e-003	0.0000	3.5503	3.5503	1.1500e-003	0.0000	3.5790
Total	**2.7100e-003**	**0.0254**	**0.0303**	**4.0000e-005**		**1.5700e-003**	**1.5700e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**3.5503**	**3.5503**	**1.1500e-003**	**0.0000**	**3.5790**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

1500 Fitzgerald Dr, Pinole Vista - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1000e-004	0.0178	0.0307	4.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	3.5503	3.5503	1.1500e-003	0.0000	3.5790
Total	**9.1000e-004**	**0.0178**	**0.0307**	**4.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**3.5503**	**3.5503**	**1.1500e-003**	**0.0000**	**3.5790**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

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1500 Fitzgerald Dr, Pinole Vista - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	1.5600e-003	0.0146	0.0188	3.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	2.2208	2.2208	7.2000e-004	0.0000	2.2388
Total	**1.5600e-003**	**0.0146**	**0.0188**	**3.0000e-005**		**8.4000e-004**	**8.4000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.2208**	**2.2208**	**7.2000e-004**	**0.0000**	**2.2388**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	5.7000e-004	0.0111	0.0192	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2208	2.2208	7.2000e-004	0.0000	2.2388
Total	**5.7000e-004**	**0.0111**	**0.0192**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2208**	**2.2208**	**7.2000e-004**	**0.0000**	**2.2388**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7000e-004	5.0800e-003	6.5800e-003	1.0000e-005		2.5000e-004	2.5000e-004		2.3000e-004	2.3000e-004	0.0000	0.8759	0.8759	2.6000e-004	0.0000	0.8824

1500 Fitzgerald Dr, Pinole Vista - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7000e-004**	**5.0800e-003**	**6.5800e-003**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.8759**	**0.8759**	**2.6000e-004**	**0.0000**	**0.8824**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5000e-004	3.8100e-003	6.5700e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.8759	0.8759	2.6000e-004	0.0000	0.8824

1500 Fitzgerald Dr, Pinole Vista - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.5000e-004**	**3.8100e-003**	**6.5700e-003**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.8759**	**0.8759**	**2.6000e-004**	**0.0000**	**0.8824**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1544					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	7.2600e-003	0.0537	0.0798	1.3000e-004		2.6300e-003	2.6300e-003		2.6200e-003	2.6200e-003	0.0000	11.1544	11.1544	1.2400e-003	0.0000	11.1853
Total	**1.1617**	**0.0537**	**0.0798**	**1.3000e-004**		**2.6300e-003**	**2.6300e-003**		**2.6200e-003**	**2.6200e-003**	**0.0000**	**11.1544**	**11.1544**	**1.2400e-003**	**0.0000**	**11.1853**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1544					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	2.5200e-003	0.0511	0.0832	1.3000e-004		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	11.1544	11.1544	1.2400e-003	0.0000	11.1853
Total	**1.1570**	**0.0511**	**0.0832**	**1.3000e-004**		**7.0000e-004**	**7.0000e-004**		**7.0000e-004**	**7.0000e-004**	**0.0000**	**11.1544**	**11.1544**	**1.2400e-003**	**0.0000**	**11.1853**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	4.3000e-003	0.0317	0.0499	8.0000e-005		1.4300e-003	1.4300e-003		1.4200e-003	1.4200e-003	0.0000	6.9775	6.9775	7.5000e-004	0.0000	6.9963
Total	**0.7264**	**0.0317**	**0.0499**	**8.0000e-005**		**1.4300e-003**	**1.4300e-003**		**1.4200e-003**	**1.4200e-003**	**0.0000**	**6.9775**	**6.9775**	**7.5000e-004**	**0.0000**	**6.9963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Off-Road	1.5800e-003	0.0320	0.0521	8.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.9774	6.9774	7.5000e-004	0.0000	6.9963
Total	**0.7237**	**0.0320**	**0.0521**	**8.0000e-005**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**6.9774**	**6.9774**	**7.5000e-004**	**0.0000**	**6.9963**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4300e-003	0.0605	0.0963	1.5000e-004		3.0800e-003	3.0800e-003		2.8400e-003	2.8400e-003	0.0000	12.7408	12.7408	4.1200e-003	0.0000	12.8438

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Total	**6.4300e-003**	**0.0605**	**0.0963**	**1.5000e-004**		**3.0800e-003**	**3.0800e-003**		**2.8400e-003**	**2.8400e-003**	**0.0000**	**12.7408**	**12.7408**	**4.1200e-003**	**0.0000**	**12.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3300e-003	0.0637	0.1097	1.5000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	12.7408	12.7408	4.1200e-003	0.0000	12.8438
Total	**2.3300e-003**	**0.0637**	**0.1097**	**1.5000e-004**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**12.7408**	**12.7408**	**4.1200e-003**	**0.0000**	**12.8438**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9800e-003	0.0270	0.0481	7.0000e-005		1.3300e-003	1.3300e-003		1.2200e-003	1.2200e-003	0.0000	6.3738	6.3738	2.0600e-003	0.0000	6.4253
Total	**2.9800e-003**	**0.0270**	**0.0481**	**7.0000e-005**		**1.3300e-003**	**1.3300e-003**		**1.2200e-003**	**1.2200e-003**	**0.0000**	**6.3738**	**6.3738**	**2.0600e-003**	**0.0000**	**6.4253**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1700e-003	0.0318	0.0549	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.3738	6.3738	2.0600e-003	0.0000	6.4253
Total	**1.1700e-003**	**0.0318**	**0.0549**	**7.0000e-005**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**6.3738**	**6.3738**	**2.0600e-003**	**0.0000**	**6.4253**

Mitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7774	0.5366	4.6535	0.0101	0.9036	7.7600e-003	0.9113	0.2254	7.2700e-003	0.2327	0.0000	933.4770	933.4770	0.0542	0.0454	948.3628
Unmitigated	0.7774	0.5366	4.6535	0.0101	0.9036	7.7600e-003	0.9113	0.2254	7.2700e-003	0.2327	0.0000	933.4770	933.4770	0.0542	0.0454	948.3628

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,213.12	1,094.93	912.07	2,663,505	2,663,505
Parking Lot	0.00	0.00	0.00		
Total	1,213.12	1,094.93	912.07	2,663,505	2,663,505

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.508087	0.043691	0.221929	0.144147	0.028890	0.006646	0.008853	0.007902	0.000528	0.000481	0.024730	0.000735	0.003381
Parking Lot	0.508087	0.043691	0.221929	0.144147	0.028890	0.006646	0.008853	0.007902	0.000528	0.000481	0.024730	0.000735	0.003381

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.1572	83.1572	0.0135	1.6300e-003	83.9795
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.1572	83.1572	0.0135	1.6300e-003	83.9795
NaturalGas Mitigated	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700
NaturalGas Unmitigated	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.88279e+006	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0102**	**0.0868**	**0.0369**	**5.5000e-004**		**7.0100e-003**	**7.0100e-003**		**7.0100e-003**	**7.0100e-003**	**0.0000**	**100.4729**	**100.4729**	**1.9300e-003**	**1.8400e-003**	**101.0700**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Apartments Mid Rise	1.88279e+006	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0102**	**0.0868**	**0.0369**	**5.5000e-004**		**7.0100e-003**	**7.0100e-003**		**7.0100e-003**	**7.0100e-003**	**0.0000**	**100.4729**	**100.4729**	**1.9300e-003**	**1.8400e-003**	**101.0700**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	866661	80.1867	0.0130	1.5700e-003	80.9796
Parking Lot	32105.5	2.9705	4.8000e-004	6.0000e-005	2.9999
Total		**83.1572**	**0.0135**	**1.6300e-003**	**83.9795**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	866661	80.1867	0.0130	1.5700e-003	80.9796

Parking Lot	32105.5	2.9705	4.8000e-004	6.0000e-005	2.9999
Total		**83.1572**	**0.0135**	**1.6300e-003**	**83.9795**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2749	0.0268	1.6600	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7700e-003	1.6000e-004	11.7362
Unmitigated	1.2749	0.0268	1.6600	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7700e-003	1.6000e-004	11.7362

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Consumer Products	1.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.0000e-004	7.6900e-003	3.2700e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	8.9085	8.9085	1.7000e-004	1.6000e-004	8.9615
Landscaping	0.0499	0.0191	1.6568	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7096	2.7096	2.6000e-003	0.0000	2.7747
Total	**1.2749**	**0.0268**	**1.6600**	**1.4000e-004**		**9.8100e-003**	**9.8100e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**11.6182**	**11.6182**	**2.7700e-003**	**1.6000e-004**	**11.7362**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.0000e-004	7.6900e-003	3.2700e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	8.9085	8.9085	1.7000e-004	1.6000e-004	8.9615
Landscaping	0.0499	0.0191	1.6568	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7096	2.7096	2.6000e-003	0.0000	2.7747
Total	**1.2749**	**0.0268**	**1.6600**	**1.4000e-004**		**9.8100e-003**	**9.8100e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**11.6182**	**11.6182**	**2.7700e-003**	**1.6000e-004**	**11.7362**

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	15.3808	0.0194	0.0114	19.2557
Unmitigated	15.3808	0.0194	0.0114	19.2557

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.5293 / 9.15981	15.3808	0.0194	0.0114	19.2557
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**15.3808**	**0.0194**	**0.0114**	**19.2557**

Mitigated

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.5293 / 9.15981	15.3808	0.0194	0.0114	19.2557
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**15.3808**	**0.0194**	**0.0114**	**19.2557**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	20.8228	1.2306	0.0000	51.5876
Unmitigated	20.8228	1.2306	0.0000	51.5876

8.2 Waste by Land Use

Unmitigated

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	102.58	20.8228	1.2306	0.0000	51.5876
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**20.8228**	**1.2306**	**0.0000**	**51.5876**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	102.58	20.8228	1.2306	0.0000	51.5876
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**20.8228**	**1.2306**	**0.0000**	**51.5876**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	91.34	1000sqft	2.10	91,342.00	0
Parking Lot	120.68	1000sqft	2.77	120,676.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing land use - CalEEMod no Department Store land use, so used Strip Mall use

Construction Phase - Existing use - no construction

Off-road Equipment - Existing use - no construction

Grading -

Vehicle Trips - Traffic provided trip gen

Vehicle Emission Factors - EMFAC2021 vehicle emission factors Contra Costa County 2025

Fleet Mix - EMFAC2021 Fleet Mix Contra Costa County 2025

Energy Use - Historical Energy Use

Table Name	Column Name	Default Value	New Value

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tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	PhaseEndDate	10/7/2022	10/3/2022
tblEnergyUse	LightingElect	5.88	4.88
tblEnergyUse	LightingElect	0.88	0.35
tblEnergyUse	T24E	2.90	2.00
tblEnergyUse	T24NG	4.68	3.86
tblFleetMix	HHD	7.1590e-003	7.9020e-003
tblFleetMix	HHD	7.1590e-003	7.9020e-003
tblFleetMix	LDA	0.57	0.51
tblFleetMix	LDA	0.57	0.51
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.18	0.22
tblFleetMix	LDT2	0.18	0.22
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	5.5170e-003	6.6460e-003
tblFleetMix	LHD2	5.5170e-003	6.6460e-003
tblFleetMix	MCY	0.03	0.02
tblFleetMix	MCY	0.03	0.02
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MH	3.2710e-003	3.3810e-003
tblFleetMix	MH	3.2710e-003	3.3810e-003
tblFleetMix	MHD	7.2310e-003	8.8530e-003
tblFleetMix	MHD	7.2310e-003	8.8530e-003
tblFleetMix	OBUS	5.4500e-004	5.2800e-004
tblFleetMix	OBUS	5.4500e-004	5.2800e-004
tblFleetMix	SBUS	1.3900e-003	7.3500e-004

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tblFleetMix	SBUS	1.3900e-003	7.3500e-004
tblFleetMix	UBUS	3.3100e-004	4.8100e-004
tblFleetMix	UBUS	3.3100e-004	4.8100e-004
tblLandUse	LandUseSquareFeet	91,340.00	91,342.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblVehicleEF	HHD	0.02	0.23
tblVehicleEF	HHD	0.05	0.11
tblVehicleEF	HHD	6.26	5.17
tblVehicleEF	HHD	0.40	0.76
tblVehicleEF	HHD	5.2340e-003	5.8600e-004
tblVehicleEF	HHD	1,019.51	816.29
tblVehicleEF	HHD	1,381.70	1,585.34
tblVehicleEF	HHD	0.04	9.0660e-003
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.22	0.25
tblVehicleEF	HHD	9.0000e-006	4.0000e-006
tblVehicleEF	HHD	5.29	4.09
tblVehicleEF	HHD	2.65	1.80
tblVehicleEF	HHD	2.36	2.73
tblVehicleEF	HHD	2.5120e-003	2.2060e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.4040e-003	2.1050e-003
tblVehicleEF	HHD	0.03	0.03

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tblVehicleEF	HHD	8.8700e-003	8.7970e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	7.2000e-005
tblVehicleEF	HHD	7.5000e-005	2.2000e-005
tblVehicleEF	HHD	0.42	0.33
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.6000e-005	1.9500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.4890e-003	7.1330e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	7.2000e-005
tblVehicleEF	HHD	7.5000e-005	2.2000e-005
tblVehicleEF	HHD	0.49	0.59
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.07	0.13
tblVehicleEF	HHD	3.6000e-005	1.9500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	LDA	1.5730e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.07
tblVehicleEF	LDA	0.49	0.62
tblVehicleEF	LDA	2.06	2.95
tblVehicleEF	LDA	231.46	249.57
tblVehicleEF	LDA	49.16	64.98
tblVehicleEF	LDA	3.8640e-003	4.0970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.24

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tblVehicleEF	LDA	0.04	7.0320e-003
tblVehicleEF	LDA	1.2700e-003	1.1570e-003
tblVehicleEF	LDA	1.6650e-003	1.9400e-003
tblVehicleEF	LDA	0.02	2.4610e-003
tblVehicleEF	LDA	1.1690e-003	1.0650e-003
tblVehicleEF	LDA	1.5310e-003	1.7840e-003
tblVehicleEF	LDA	0.04	0.30
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	5.7590e-003	7.1520e-003
tblVehicleEF	LDA	0.03	0.23
tblVehicleEF	LDA	0.19	0.30
tblVehicleEF	LDA	2.2900e-003	2.4670e-003
tblVehicleEF	LDA	4.8600e-004	6.4200e-004
tblVehicleEF	LDA	0.04	0.30
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	8.3700e-003	0.01
tblVehicleEF	LDA	0.03	0.23
tblVehicleEF	LDA	0.21	0.33
tblVehicleEF	LDT1	3.3010e-003	5.4260e-003
tblVehicleEF	LDT1	0.06	0.11
tblVehicleEF	LDT1	0.78	1.27
tblVehicleEF	LDT1	2.24	5.32
tblVehicleEF	LDT1	278.85	325.41
tblVehicleEF	LDT1	59.88	86.37
tblVehicleEF	LDT1	5.5760e-003	8.6950e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.06	0.11

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tblVehicleEF	LDT1	0.22	0.39
tblVehicleEF	LDT1	0.04	8.9010e-003
tblVehicleEF	LDT1	1.5500e-003	1.7770e-003
tblVehicleEF	LDT1	2.0750e-003	2.8970e-003
tblVehicleEF	LDT1	0.02	3.1150e-003
tblVehicleEF	LDT1	1.4260e-003	1.6350e-003
tblVehicleEF	LDT1	1.9080e-003	2.6640e-003
tblVehicleEF	LDT1	0.08	0.63
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.08	0.50
tblVehicleEF	LDT1	0.28	0.55
tblVehicleEF	LDT1	2.7590e-003	3.2170e-003
tblVehicleEF	LDT1	5.9300e-004	8.5400e-004
tblVehicleEF	LDT1	0.08	0.63
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.50
tblVehicleEF	LDT1	0.31	0.60
tblVehicleEF	LDT2	2.5820e-003	2.5090e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.66	0.75
tblVehicleEF	LDT2	2.64	3.52
tblVehicleEF	LDT2	295.77	335.88
tblVehicleEF	LDT2	63.81	85.87
tblVehicleEF	LDT2	5.2630e-003	5.6420e-003
tblVehicleEF	LDT2	0.03	0.04

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tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.24	0.32
tblVehicleEF	LDT2	0.04	8.5260e-003
tblVehicleEF	LDT2	1.3070e-003	1.2910e-003
tblVehicleEF	LDT2	1.6630e-003	2.0710e-003
tblVehicleEF	LDT2	0.02	2.9840e-003
tblVehicleEF	LDT2	1.2030e-003	1.1870e-003
tblVehicleEF	LDT2	1.5290e-003	1.9040e-003
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	0.12	0.08
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	9.5660e-003
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	0.27	0.37
tblVehicleEF	LDT2	2.9260e-003	3.3200e-003
tblVehicleEF	LDT2	6.3100e-004	8.4900e-004
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	0.12	0.08
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	0.30	0.40
tblVehicleEF	LHD1	4.6450e-003	4.9710e-003
tblVehicleEF	LHD1	7.8330e-003	7.8630e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.19
tblVehicleEF	LHD1	0.72	0.83
tblVehicleEF	LHD1	0.97	1.97
tblVehicleEF	LHD1	9.02	8.87

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tblVehicleEF	LHD1	764.24	767.43
tblVehicleEF	LHD1	10.67	16.34
tblVehicleEF	LHD1	8.1800e-004	7.3000e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.85	0.79
tblVehicleEF	LHD1	0.29	0.41
tblVehicleEF	LHD1	9.3500e-004	8.0100e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.9160e-003	9.6050e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.2400e-004	1.9000e-004
tblVehicleEF	LHD1	8.9500e-004	7.6700e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4790e-003	2.4010e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0600e-004	1.7500e-004
tblVehicleEF	LHD1	1.7030e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8600e-004	0.00
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.20	0.16
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	7.4500e-003	7.4820e-003
tblVehicleEF	LHD1	1.0600e-004	1.6200e-004
tblVehicleEF	LHD1	1.7030e-003	0.12

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tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.8600e-004	0.00
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.20	0.16
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD2	2.8090e-003	2.8000e-003
tblVehicleEF	LHD2	6.5690e-003	7.0700e-003
tblVehicleEF	LHD2	6.7610e-003	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.61	0.56
tblVehicleEF	LHD2	0.53	1.04
tblVehicleEF	LHD2	14.16	14.19
tblVehicleEF	LHD2	742.13	816.81
tblVehicleEF	LHD2	6.88	8.60
tblVehicleEF	LHD2	1.8210e-003	1.8110e-003
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.87	0.93
tblVehicleEF	LHD2	0.16	0.21
tblVehicleEF	LHD2	1.4850e-003	1.4620e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.0800e-004	8.2000e-005
tblVehicleEF	LHD2	1.4200e-003	1.3990e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7120e-003	2.7030e-003

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.9000e-005	7.5000e-005
tblVehicleEF	LHD2	7.5900e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.6000e-004	0.00
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3500e-004	1.3600e-004
tblVehicleEF	LHD2	7.1570e-003	7.8550e-003
tblVehicleEF	LHD2	6.8000e-005	8.5000e-005
tblVehicleEF	LHD2	7.5900e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.6000e-004	0.00
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	MCY	0.33	0.17
tblVehicleEF	MCY	0.26	0.19
tblVehicleEF	MCY	19.68	13.69
tblVehicleEF	MCY	9.10	8.27
tblVehicleEF	MCY	213.27	189.68
tblVehicleEF	MCY	61.41	50.92
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.6320e-003
tblVehicleEF	MCY	1.16	0.61
tblVehicleEF	MCY	0.27	0.15

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tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0620e-003	1.9220e-003
tblVehicleEF	MCY	2.9910e-003	3.5170e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9270e-003	1.7990e-003
tblVehicleEF	MCY	2.8130e-003	3.3090e-003
tblVehicleEF	MCY	0.89	4.34
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	0.56	0.00
tblVehicleEF	MCY	2.27	1.15
tblVehicleEF	MCY	0.54	3.83
tblVehicleEF	MCY	1.97	1.45
tblVehicleEF	MCY	2.1100e-003	1.8750e-003
tblVehicleEF	MCY	6.0800e-004	5.0300e-004
tblVehicleEF	MCY	0.89	0.11
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	0.56	0.00
tblVehicleEF	MCY	2.81	1.38
tblVehicleEF	MCY	0.54	3.83
tblVehicleEF	MCY	2.14	1.58
tblVehicleEF	MDV	3.3980e-003	3.6610e-003
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.76	0.91
tblVehicleEF	MDV	2.94	3.90
tblVehicleEF	MDV	365.80	410.07
tblVehicleEF	MDV	78.10	104.26
tblVehicleEF	MDV	7.6380e-003	8.4220e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.07	0.10

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tblVehicleEF	MDV	0.30	0.42
tblVehicleEF	MDV	0.04	8.7320e-003
tblVehicleEF	MDV	1.3970e-003	1.3660e-003
tblVehicleEF	MDV	1.7290e-003	2.1250e-003
tblVehicleEF	MDV	0.02	3.0560e-003
tblVehicleEF	MDV	1.2880e-003	1.2600e-003
tblVehicleEF	MDV	1.5900e-003	1.9530e-003
tblVehicleEF	MDV	0.07	0.39
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.08	0.00
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.34	0.50
tblVehicleEF	MDV	3.6160e-003	4.0510e-003
tblVehicleEF	MDV	7.7300e-004	1.0310e-003
tblVehicleEF	MDV	0.07	0.39
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.08	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.38	0.54
tblVehicleEF	MH	8.5200e-003	9.7710e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.75	0.85
tblVehicleEF	MH	1.88	2.22
tblVehicleEF	MH	1,486.32	1,667.51
tblVehicleEF	MH	17.29	21.33
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03

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tblVehicleEF	MH	1.47	1.61
tblVehicleEF	MH	0.24	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.2200e-004	2.5700e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3000e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.0400e-004	2.3600e-004
tblVehicleEF	MH	0.54	29.31
tblVehicleEF	MH	0.05	7.55
tblVehicleEF	MH	0.22	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7100e-004	2.1100e-004
tblVehicleEF	MH	0.54	29.31
tblVehicleEF	MH	0.05	7.55
tblVehicleEF	MH	0.22	0.00
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MHD	4.0000e-003	0.01
tblVehicleEF	MHD	1.8620e-003	0.01
tblVehicleEF	MHD	9.9270e-003	8.8300e-003
tblVehicleEF	MHD	0.44	0.69
tblVehicleEF	MHD	0.24	0.34

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tblVehicleEF	MHD	1.13	1.08
tblVehicleEF	MHD	82.82	166.88
tblVehicleEF	MHD	1,095.89	1,212.91
tblVehicleEF	MHD	9.87	8.44
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.13	0.16
tblVehicleEF	MHD	8.1210e-003	5.9700e-003
tblVehicleEF	MHD	0.50	0.94
tblVehicleEF	MHD	1.47	1.09
tblVehicleEF	MHD	1.66	1.42
tblVehicleEF	MHD	4.1500e-004	2.0600e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	7.2330e-003	0.01
tblVehicleEF	MHD	1.2500e-004	1.0600e-004
tblVehicleEF	MHD	3.9700e-004	1.9710e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.9120e-003	0.01
tblVehicleEF	MHD	1.1500e-004	9.8000e-005
tblVehicleEF	MHD	3.7500e-004	0.03
tblVehicleEF	MHD	0.02	6.6570e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	2.2100e-004	0.00
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.8600e-004	1.5480e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.8000e-005	8.3000e-005
tblVehicleEF	MHD	3.7500e-004	0.03

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tblVehicleEF	MHD	0.02	6.6570e-003
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	2.2100e-004	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	OBUS	8.8010e-003	8.8470e-003
tblVehicleEF	OBUS	7.9490e-003	0.01
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.52	0.50
tblVehicleEF	OBUS	0.86	1.08
tblVehicleEF	OBUS	2.78	3.17
tblVehicleEF	OBUS	67.38	67.22
tblVehicleEF	OBUS	1,458.49	1,583.12
tblVehicleEF	OBUS	21.17	24.03
tblVehicleEF	OBUS	8.4680e-003	8.5450e-003
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.25
tblVehicleEF	OBUS	1.10	1.15
tblVehicleEF	OBUS	0.70	0.70
tblVehicleEF	OBUS	8.3000e-005	2.8200e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	6.0960e-003	0.02
tblVehicleEF	OBUS	2.1200e-004	2.1400e-004
tblVehicleEF	OBUS	8.0000e-005	2.7000e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	5.8080e-003	0.02
tblVehicleEF	OBUS	1.9500e-004	1.9700e-004

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tblVehicleEF	OBUS	1.6800e-003	0.12
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	8.1700e-004	0.00
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.09	0.14
tblVehicleEF	OBUS	0.13	0.15
tblVehicleEF	OBUS	6.4300e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	2.0900e-004	2.3800e-004
tblVehicleEF	OBUS	1.6800e-003	0.12
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	0.00
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.09	0.14
tblVehicleEF	OBUS	0.14	0.17
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	2.4230e-003	0.12
tblVehicleEF	SBUS	1.3430e-003	2.8900e-003
tblVehicleEF	SBUS	1.30	1.32
tblVehicleEF	SBUS	0.21	0.64
tblVehicleEF	SBUS	0.19	0.40
tblVehicleEF	SBUS	294.13	181.00
tblVehicleEF	SBUS	970.44	1,030.33
tblVehicleEF	SBUS	1.11	2.47
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	1.1920e-003	3.0200e-003

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tblVehicleEF	SBUS	2.14	1.20
tblVehicleEF	SBUS	2.58	2.08
tblVehicleEF	SBUS	1.61	0.54
tblVehicleEF	SBUS	1.3790e-003	8.9100e-004
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	1.7000e-005	3.3000e-005
tblVehicleEF	SBUS	1.3190e-003	8.5100e-004
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8990e-003	2.7060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.5000e-005	3.1000e-005
tblVehicleEF	SBUS	8.9000e-005	0.01
tblVehicleEF	SBUS	8.4100e-004	3.4760e-003
tblVehicleEF	SBUS	0.09	0.13
tblVehicleEF	SBUS	4.3000e-005	0.00
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	1.7950e-003	8.0700e-003
tblVehicleEF	SBUS	7.4670e-003	0.02
tblVehicleEF	SBUS	2.7850e-003	1.6140e-003
tblVehicleEF	SBUS	9.2040e-003	9.4530e-003
tblVehicleEF	SBUS	1.1000e-005	2.4000e-005
tblVehicleEF	SBUS	8.9000e-005	0.01
tblVehicleEF	SBUS	8.4100e-004	3.4760e-003
tblVehicleEF	SBUS	0.12	0.24
tblVehicleEF	SBUS	4.3000e-005	0.00
tblVehicleEF	SBUS	0.05	0.16
tblVehicleEF	SBUS	1.7950e-003	8.0700e-003

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tblVehicleEF	SBUS	8.1750e-003	0.02
tblVehicleEF	UBUS	1.10	0.28
tblVehicleEF	UBUS	1.4020e-003	0.03
tblVehicleEF	UBUS	8.13	3.34
tblVehicleEF	UBUS	0.22	2.22
tblVehicleEF	UBUS	1,559.19	1,281.30
tblVehicleEF	UBUS	2.71	21.04
tblVehicleEF	UBUS	0.25	0.17
tblVehicleEF	UBUS	3.6400e-003	0.02
tblVehicleEF	UBUS	0.64	0.29
tblVehicleEF	UBUS	0.02	0.22
tblVehicleEF	UBUS	0.08	0.12
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	4.8830e-003	5.2070e-003
tblVehicleEF	UBUS	4.6000e-005	1.5100e-004
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1530e-003	7.6240e-003
tblVehicleEF	UBUS	4.6640e-003	4.9730e-003
tblVehicleEF	UBUS	4.3000e-005	1.3900e-004
tblVehicleEF	UBUS	1.2400e-004	0.04
tblVehicleEF	UBUS	9.9700e-004	0.01
tblVehicleEF	UBUS	6.6000e-005	0.00
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.2000e-004	0.03
tblVehicleEF	UBUS	4.7780e-003	0.11
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	2.7000e-005	2.0800e-004
tblVehicleEF	UBUS	1.2400e-004	0.04
tblVehicleEF	UBUS	9.9700e-004	0.01

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tblVehicleEF	UBUS	6.6000e-005	0.00
tblVehicleEF	UBUS	1.12	0.34
tblVehicleEF	UBUS	1.2000e-004	0.03
tblVehicleEF	UBUS	5.2320e-003	0.12
tblVehicleTrips	ST_TR	42.04	21.70
tblVehicleTrips	SU_TR	20.43	10.55
tblVehicleTrips	WD_TR	44.32	22.88

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.03E-03
Energy	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	112.6763	112.6763	0.0151	2.1800e-003	113.7028
Mobile	1.2220	0.6869	6.0221	0.0114	0.9997	9.1100e-003	1.0088	0.2494	8.5200e-003	0.2580	0.0000	1,051.6634	1,051.6634	0.0781	0.0581	1,070.94
Waste						0.0000	0.0000		0.0000	0.0000	19.4689	0.0000	19.4689	1.1506	0.0000	48.2333
Water						0.0000	0.0000		0.0000	0.0000	2.1465	4.7301	6.8766	0.2212	5.3000e-003	13.9862
Total	**1.6391**	**0.7074**	**6.0412**	**0.0115**	**0.9997**	**0.0107**	**1.0104**	**0.2494**	**0.0101**	**0.2595**	**21.6153**	**1,169.0737**	**1,190.6890**	**1.4650**	**0.0656**	**1,246.8658**

Mitigated Operational

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Energy	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	112.6763	112.6763	0.0151	2.1800e-003	113.7028
Mobile	1.2220	0.6869	6.0221	0.0114	0.9997	9.1100e-003	1.0088	0.2494	8.5200e-003	0.2580	0.0000	1,051.6634	1,051.6634	0.0781	0.0581	1,070.9395
Waste						0.0000	0.0000		0.0000	0.0000	19.4689	0.0000	19.4689	1.1506	0.0000	48.2333
Water						0.0000	0.0000		0.0000	0.0000	2.1465	4.7301	6.8766	0.2212	5.3000e-003	13.9862
Total	**1.6391**	**0.7074**	**6.0412**	**0.0115**	**0.9997**	**0.0107**	**1.0104**	**0.2494**	**0.0101**	**0.2595**	**21.6153**	**1,169.0737**	**1,190.6890**	**1.4650**	**0.0656**	**1,246.8658**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

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Category	tons/yr										MT/yr					
Mitigated	1.2220	0.6869	6.0221	0.0114	0.9997	9.1100e-003	1.0088	0.2494	8.5200e-003	0.2580	0.0000	1,051.6634	1,051.6634	0.0781	0.0581	1,070.9395
Unmitigated	1.2220	0.6869	6.0221	0.0114	0.9997	9.1100e-003	1.0088	0.2494	8.5200e-003	0.2580	0.0000	1,051.6634	1,051.6634	0.0781	0.0581	1,070.9395

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	2,089.86	1,982.08	963.64	2,946,966	2,946,966
Parking Lot	0.00	0.00	0.00		
Total	2,089.86	1,982.08	963.64	2,946,966	2,946,966

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.508087	0.043691	0.221929	0.144147	0.028890	0.006646	0.008853	0.007902	0.000528	0.000481	0.024730	0.000735	0.003381
Strip Mall	0.508087	0.043691	0.221929	0.144147	0.028890	0.006646	0.008853	0.007902	0.000528	0.000481	0.024730	0.000735	0.003381

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	90.4493	90.4493	0.0146	1.7700e-003	91.3437
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	90.4493	90.4493	0.0146	1.7700e-003	91.3437
NaturalGas Mitigated	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592
NaturalGas Unmitigated	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	416520	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592
Total		**2.2500e-003**	**0.0204**	**0.0172**	**1.2000e-004**		**1.5500e-003**	**1.5500e-003**		**1.5500e-003**	**1.5500e-003**	**0.0000**	**22.2271**	**22.2271**	**4.3000e-004**	**4.1000e-004**	**22.3592**

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	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	416520	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592
Total		**2.2500e-003**	**0.0204**	**0.0172**	**1.2000e-004**		**1.5500e-003**	**1.5500e-003**		**1.5500e-003**	**1.5500e-003**	**0.0000**	**22.2271**	**22.2271**	**4.3000e-004**	**4.1000e-004**	**22.3592**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	42236.6	3.9079	6.3000e-004	8.0000e-005	3.9465
Strip Mall	935342	86.5414	0.0140	1.7000e-003	87.3971
Total		**90.4493**	**0.0146**	**1.7800e-003**	**91.3437**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	42236.6	3.9079	6.3000e-004	8.0000e-005	3.9465
Strip Mall	935342	86.5414	0.0140	1.7000e-003	87.3971
Total		**90.4493**	**0.0146**	**1.7800e-003**	**91.3437**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Unmitigated	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003

6.2 Area by SubCategory

Unmitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0502					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Total	**0.4149**	**2.0000e-005**	**1.9400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7900e-003**	**3.7900e-003**	**1.0000e-005**	**0.0000**	**4.0300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0502					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Total	**0.4149**	**2.0000e-005**	**1.9400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7900e-003**	**3.7900e-003**	**1.0000e-005**	**0.0000**	**4.0300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.8766	0.2212	5.3000e-003	13.9862
Unmitigated	6.8766	0.2212	5.3000e-003	13.9862

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.76578 / 4.14677	6.8766	0.2212	5.3000e-003	13.9862
Total		**6.8766**	**0.2212**	**5.3000e-003**	**13.9862**

Mitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.76578 / 4.14677	6.8766	0.2212	5.3000e-003	13.9862
Total		**6.8766**	**0.2212**	**5.3000e-003**	**13.9862**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.4689	1.1506	0.0000	48.2333
Unmitigated	19.4689	1.1506	0.0000	48.2333

8.2 Waste by Land Use

Unmitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	95.91	19.4689	1.1506	0.0000	48.2333
Total		**19.4689**	**1.1506**	**0.0000**	**48.2333**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	95.91	19.4689	1.1506	0.0000	48.2333
Total		**19.4689**	**1.1506**	**0.0000**	**48.2333**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	223.00	Dwelling Unit	5.93	263,862.00	638
Parking Lot	275.00	Space	0.00	91,730.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Provided land uses - construction worksheet and plans

Construction Phase - Provided construction schedule

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Off-road Equipment - Provided construction equip & hours

Grading - grading = 100-cy import & 100-cy export

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - existgin building demo = 91,342-sf

Trips and VMT - 0 trips for EMFAC2021 adjustments, pavement demo = 2,980 tons, building const = 150 cement truck round trips, paving = 114 asphalt truck round trips

Vehicle Trips - Same trip gen as traffic study

Vehicle Emission Factors - EMFAC2021 vehicle emission factors Contra Costa County 2030

Fleet Mix - EMFAC2021 fleet mix Contra Costa County 2030

Woodstoves - No fireplaces or wood, all natural gas

Water And Wastewater - Wastewater treatment 100% aerobic

Construction Off-road Equipment Mitigation - BMPs, Tier 4 interim mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	382.00
tblConstructionPhase	NumDays	230.00	382.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	11/24/2023	7/23/2024
tblConstructionPhase	PhaseEndDate	9/29/2023	7/23/2024
tblConstructionPhase	PhaseEndDate	9/30/2022	10/7/2022
tblConstructionPhase	PhaseEndDate	11/11/2022	11/4/2022
tblConstructionPhase	PhaseEndDate	10/27/2023	9/6/2024
tblConstructionPhase	PhaseEndDate	10/14/2022	10/21/2022
tblConstructionPhase	PhaseStartDate	10/28/2023	2/6/2023
tblConstructionPhase	PhaseStartDate	11/12/2022	2/6/2023
tblConstructionPhase	PhaseStartDate	10/15/2022	10/24/2022
tblConstructionPhase	PhaseStartDate	9/30/2023	8/12/2024
tblConstructionPhase	PhaseStartDate	10/1/2022	10/10/2022
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	33.45	71.36
tblFireplaces	NumberWood	37.91	0.00
tblFleetMix	HHD	7.0880e-003	8.5760e-003
tblFleetMix	HHD	7.0880e-003	8.5760e-003
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDT1	0.06	0.04

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.18	0.23
tblFleetMix	LDT2	0.18	0.23
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	5.5730e-003	6.7980e-003
tblFleetMix	LHD2	5.5730e-003	6.7980e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MH	2.8620e-003	2.8570e-003
tblFleetMix	MH	2.8620e-003	2.8570e-003
tblFleetMix	MHD	7.4350e-003	9.3340e-003
tblFleetMix	MHD	7.4350e-003	9.3340e-003
tblFleetMix	OBUS	5.3700e-004	5.0500e-004
tblFleetMix	OBUS	5.3700e-004	5.0500e-004
tblFleetMix	SBUS	1.7970e-003	7.6600e-004
tblFleetMix	SBUS	1.7970e-003	7.6600e-004
tblFleetMix	UBUS	3.0500e-004	4.7400e-004
tblFleetMix	UBUS	3.0500e-004	4.7400e-004
tblGrading	MaterialExported	0.00	100.00
tblGrading	MaterialImported	0.00	100.00
tblLandUse	LandUseSquareFeet	223,000.00	263,862.00
tblLandUse	LandUseSquareFeet	110,000.00	91,730.00
tblLandUse	LotAcreage	5.87	5.93
tblLandUse	LotAcreage	2.47	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.31	0.31

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.80
tblOffRoadEquipment	UsageHours	8.00	0.70
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	415.00	0.00
tblTripsAndVMT	HaulingTripNumber	25.00	0.00
tblTripsAndVMT	VendorTripNumber	39.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	199.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	40.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblVehicleEF	HHD	0.02	0.20
tblVehicleEF	HHD	0.04	0.09
tblVehicleEF	HHD	6.20	5.00
tblVehicleEF	HHD	0.40	0.63
tblVehicleEF	HHD	5.6660e-003	7.4900e-004
tblVehicleEF	HHD	917.03	721.73

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tblVehicleEF	HHD	1,224.73	1,397.66
tblVehicleEF	HHD	0.04	6.2820e-003
tblVehicleEF	HHD	0.14	0.12
tblVehicleEF	HHD	0.19	0.22
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	5.13	3.83
tblVehicleEF	HHD	2.50	1.47
tblVehicleEF	HHD	2.37	2.60
tblVehicleEF	HHD	2.1040e-003	1.7840e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0130e-003	1.7000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8010e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	1.5000e-005
tblVehicleEF	HHD	4.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.42	0.31
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.1000e-005	4.2000e-005
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	8.5390e-003	6.2450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	1.5000e-005
tblVehicleEF	HHD	4.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.48	0.54
tblVehicleEF	HHD	1.0000e-006	0.00

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tblVehicleEF	HHD	0.07	0.10
tblVehicleEF	HHD	2.1000e-005	4.2000e-005
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	LDA	9.7700e-004	1.2690e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.40	0.48
tblVehicleEF	LDA	1.73	2.25
tblVehicleEF	LDA	202.49	223.58
tblVehicleEF	LDA	42.75	57.84
tblVehicleEF	LDA	3.2530e-003	3.2780e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.13	0.19
tblVehicleEF	LDA	0.04	6.9340e-003
tblVehicleEF	LDA	9.3000e-004	8.5000e-004
tblVehicleEF	LDA	1.2990e-003	1.5420e-003
tblVehicleEF	LDA	0.02	2.4270e-003
tblVehicleEF	LDA	8.5600e-004	7.8200e-004
tblVehicleEF	LDA	1.1950e-003	1.4180e-003
tblVehicleEF	LDA	0.03	0.26
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	3.2790e-003	4.3810e-003
tblVehicleEF	LDA	0.02	0.20
tblVehicleEF	LDA	0.13	0.21
tblVehicleEF	LDA	2.0030e-003	2.2100e-003
tblVehicleEF	LDA	4.2300e-004	5.7200e-004
tblVehicleEF	LDA	0.03	0.26
tblVehicleEF	LDA	0.07	0.07

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tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.7630e-003	6.3860e-003
tblVehicleEF	LDA	0.02	0.20
tblVehicleEF	LDA	0.14	0.24
tblVehicleEF	LDT1	1.7340e-003	3.2150e-003
tblVehicleEF	LDT1	0.04	0.08
tblVehicleEF	LDT1	0.53	0.88
tblVehicleEF	LDT1	1.87	3.79
tblVehicleEF	LDT1	245.74	299.50
tblVehicleEF	LDT1	52.42	78.05
tblVehicleEF	LDT1	3.9140e-003	5.9500e-003
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.03	0.07
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	0.04	8.8250e-003
tblVehicleEF	LDT1	1.0760e-003	1.2750e-003
tblVehicleEF	LDT1	1.5120e-003	2.2190e-003
tblVehicleEF	LDT1	0.02	3.0890e-003
tblVehicleEF	LDT1	9.9000e-004	1.1720e-003
tblVehicleEF	LDT1	1.3910e-003	2.0400e-003
tblVehicleEF	LDT1	0.05	0.54
tblVehicleEF	LDT1	0.11	0.14
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	6.6990e-003	0.01
tblVehicleEF	LDT1	0.05	0.41
tblVehicleEF	LDT1	0.17	0.38
tblVehicleEF	LDT1	2.4320e-003	2.9610e-003
tblVehicleEF	LDT1	5.1900e-004	7.7200e-004
tblVehicleEF	LDT1	0.05	0.54

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tblVehicleEF	LDT1	0.11	0.14
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	9.7740e-003	0.02
tblVehicleEF	LDT1	0.05	0.41
tblVehicleEF	LDT1	0.19	0.42
tblVehicleEF	LDT2	1.6650e-003	1.8230e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.53	0.62
tblVehicleEF	LDT2	2.29	2.81
tblVehicleEF	LDT2	252.89	306.67
tblVehicleEF	LDT2	54.34	77.74
tblVehicleEF	LDT2	4.0330e-003	4.4950e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.17	0.25
tblVehicleEF	LDT2	0.04	8.4960e-003
tblVehicleEF	LDT2	1.0220e-003	9.9600e-004
tblVehicleEF	LDT2	1.3480e-003	1.6820e-003
tblVehicleEF	LDT2	0.02	2.9740e-003
tblVehicleEF	LDT2	9.4100e-004	9.1600e-004
tblVehicleEF	LDT2	1.2390e-003	1.5470e-003
tblVehicleEF	LDT2	0.05	0.26
tblVehicleEF	LDT2	0.09	0.07
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	6.1100e-003	6.4930e-003
tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	0.19	0.27
tblVehicleEF	LDT2	2.5020e-003	3.0310e-003
tblVehicleEF	LDT2	5.3800e-004	7.6900e-004

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tblVehicleEF	LDT2	0.05	0.26
tblVehicleEF	LDT2	0.09	0.07
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	8.8770e-003	9.4600e-003
tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	0.21	0.30
tblVehicleEF	LHD1	4.1100e-003	4.3200e-003
tblVehicleEF	LHD1	5.7660e-003	4.8460e-003
tblVehicleEF	LHD1	9.4440e-003	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.53	0.59
tblVehicleEF	LHD1	0.88	1.94
tblVehicleEF	LHD1	8.48	8.14
tblVehicleEF	LHD1	703.35	680.41
tblVehicleEF	LHD1	9.82	15.32
tblVehicleEF	LHD1	7.8200e-004	6.6600e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.23	0.33
tblVehicleEF	LHD1	9.5900e-004	7.5300e-004
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	9.9600e-003	9.4740e-003
tblVehicleEF	LHD1	8.8420e-003	0.01
tblVehicleEF	LHD1	2.0700e-004	1.3600e-004
tblVehicleEF	LHD1	9.1800e-004	7.2000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4900e-003	2.3690e-003

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tblVehicleEF	LHD1	8.4160e-003	0.01
tblVehicleEF	LHD1	1.9000e-004	1.2500e-004
tblVehicleEF	LHD1	1.4290e-003	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.6200e-004	0.00
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.20	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.2000e-005	7.9000e-005
tblVehicleEF	LHD1	6.8540e-003	6.6320e-003
tblVehicleEF	LHD1	9.7000e-005	1.5100e-004
tblVehicleEF	LHD1	1.4290e-003	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	8.6200e-004	0.00
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.20	0.13
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD2	2.4740e-003	2.4110e-003
tblVehicleEF	LHD2	5.5240e-003	4.9900e-003
tblVehicleEF	LHD2	4.8040e-003	8.4240e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.52	0.41
tblVehicleEF	LHD2	0.46	1.00
tblVehicleEF	LHD2	13.32	13.80
tblVehicleEF	LHD2	684.04	727.53
tblVehicleEF	LHD2	6.22	7.88
tblVehicleEF	LHD2	1.7300e-003	1.7820e-003

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tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.50	0.60
tblVehicleEF	LHD2	0.13	0.17
tblVehicleEF	LHD2	1.5200e-003	1.5100e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-005	5.3000e-005
tblVehicleEF	LHD2	1.4540e-003	1.4450e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7190e-003	2.6610e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.1000e-005	4.9000e-005
tblVehicleEF	LHD2	5.8000e-004	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8000e-004	0.00
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	1.2700e-004	1.3200e-004
tblVehicleEF	LHD2	6.5940e-003	6.9920e-003
tblVehicleEF	LHD2	6.2000e-005	7.8000e-005
tblVehicleEF	LHD2	5.8000e-004	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.8000e-004	0.00

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	MCY	0.33	0.15
tblVehicleEF	MCY	0.25	0.17
tblVehicleEF	MCY	18.61	11.88
tblVehicleEF	MCY	9.22	8.10
tblVehicleEF	MCY	212.79	187.18
tblVehicleEF	MCY	60.03	46.10
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1910e-003
tblVehicleEF	MCY	1.15	0.54
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1690e-003	1.9750e-003
tblVehicleEF	MCY	2.8570e-003	3.3790e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0240e-003	1.8450e-003
tblVehicleEF	MCY	2.6750e-003	3.1670e-003
tblVehicleEF	MCY	0.87	4.22
tblVehicleEF	MCY	0.68	3.59
tblVehicleEF	MCY	0.53	0.00
tblVehicleEF	MCY	2.20	0.98
tblVehicleEF	MCY	0.44	3.87
tblVehicleEF	MCY	1.91	1.26
tblVehicleEF	MCY	2.1060e-003	1.8500e-003
tblVehicleEF	MCY	5.9400e-004	4.5600e-004
tblVehicleEF	MCY	0.87	0.10
tblVehicleEF	MCY	0.68	3.59

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tblVehicleEF	MCY	0.53	0.00
tblVehicleEF	MCY	2.75	1.19
tblVehicleEF	MCY	0.44	3.87
tblVehicleEF	MCY	2.08	1.37
tblVehicleEF	MDV	2.0500e-003	2.3750e-003
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.57	0.70
tblVehicleEF	MDV	2.40	3.02
tblVehicleEF	MDV	311.83	371.71
tblVehicleEF	MDV	65.88	93.79
tblVehicleEF	MDV	5.7300e-003	6.0430e-003
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.04	0.06
tblVehicleEF	MDV	0.20	0.30
tblVehicleEF	MDV	0.04	8.6340e-003
tblVehicleEF	MDV	1.0540e-003	1.0280e-003
tblVehicleEF	MDV	1.3740e-003	1.7010e-003
tblVehicleEF	MDV	0.02	3.0220e-003
tblVehicleEF	MDV	9.7200e-004	9.4700e-004
tblVehicleEF	MDV	1.2630e-003	1.5640e-003
tblVehicleEF	MDV	0.06	0.33
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	7.9840e-003	9.2720e-003
tblVehicleEF	MDV	0.05	0.25
tblVehicleEF	MDV	0.22	0.34
tblVehicleEF	MDV	3.0820e-003	3.6730e-003
tblVehicleEF	MDV	6.5200e-004	9.2700e-004
tblVehicleEF	MDV	0.06	0.33

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tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.25
tblVehicleEF	MDV	0.24	0.37
tblVehicleEF	MH	5.4430e-003	6.3460e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.36	0.40
tblVehicleEF	MH	1.61	1.86
tblVehicleEF	MH	1,366.60	1,644.80
tblVehicleEF	MH	15.37	19.63
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.24	1.45
tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.9600e-004	2.1600e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3120e-003	3.3480e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.8000e-004	1.9800e-004
tblVehicleEF	MH	0.36	22.12
tblVehicleEF	MH	0.03	5.27
tblVehicleEF	MH	0.16	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	6.0610e-003	0.13
tblVehicleEF	MH	0.07	0.09

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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.5200e-004	1.9400e-004
tblVehicleEF	MH	0.36	22.12
tblVehicleEF	MH	0.03	5.27
tblVehicleEF	MH	0.16	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	6.0610e-003	0.13
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MHD	4.2610e-003	0.02
tblVehicleEF	MHD	1.2290e-003	9.8710e-003
tblVehicleEF	MHD	9.3810e-003	6.6910e-003
tblVehicleEF	MHD	0.46	0.65
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	0.97	0.74
tblVehicleEF	MHD	77.33	151.16
tblVehicleEF	MHD	1,028.73	1,072.59
tblVehicleEF	MHD	9.38	6.71
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	8.6830e-003	4.7960e-003
tblVehicleEF	MHD	0.42	0.79
tblVehicleEF	MHD	1.43	0.61
tblVehicleEF	MHD	1.66	1.24
tblVehicleEF	MHD	2.0900e-004	7.5400e-004
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	7.0780e-003	5.7900e-003
tblVehicleEF	MHD	1.2200e-004	8.1000e-005
tblVehicleEF	MHD	2.0000e-004	7.2000e-004
tblVehicleEF	MHD	0.06	0.02

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tblVehicleEF	MHD	6.7630e-003	5.5310e-003
tblVehicleEF	MHD	1.1200e-004	7.5000e-005
tblVehicleEF	MHD	3.0000e-004	0.02
tblVehicleEF	MHD	0.02	3.8010e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.9400e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.3400e-004	1.3890e-003
tblVehicleEF	MHD	9.8370e-003	0.01
tblVehicleEF	MHD	9.3000e-005	6.6000e-005
tblVehicleEF	MHD	3.0000e-004	0.02
tblVehicleEF	MHD	0.02	3.8010e-003
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.9400e-004	0.00
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	OBUS	8.6630e-003	8.4990e-003
tblVehicleEF	OBUS	4.2740e-003	9.6200e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.55	0.53
tblVehicleEF	OBUS	0.45	0.60
tblVehicleEF	OBUS	2.37	2.58
tblVehicleEF	OBUS	71.40	73.26
tblVehicleEF	OBUS	1,312.44	1,408.48
tblVehicleEF	OBUS	18.77	20.35
tblVehicleEF	OBUS	9.3350e-003	9.7840e-003

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tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.29	0.25
tblVehicleEF	OBUS	1.05	1.01
tblVehicleEF	OBUS	0.77	0.69
tblVehicleEF	OBUS	9.8000e-005	2.8000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	6.3080e-003	0.02
tblVehicleEF	OBUS	2.1300e-004	1.9100e-004
tblVehicleEF	OBUS	9.3000e-005	2.6800e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	6.0110e-003	0.02
tblVehicleEF	OBUS	1.9600e-004	1.7500e-004
tblVehicleEF	OBUS	1.5430e-003	0.12
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	7.6900e-004	0.00
tblVehicleEF	OBUS	0.02	0.06
tblVehicleEF	OBUS	0.08	0.14
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	6.8100e-004	6.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8600e-004	2.0100e-004
tblVehicleEF	OBUS	1.5430e-003	0.12
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	7.6900e-004	0.00
tblVehicleEF	OBUS	0.03	0.08
tblVehicleEF	OBUS	0.08	0.14

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tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	1.7320e-003	0.11
tblVehicleEF	SBUS	1.4050e-003	3.2720e-003
tblVehicleEF	SBUS	1.41	1.43
tblVehicleEF	SBUS	0.17	0.58
tblVehicleEF	SBUS	0.20	0.43
tblVehicleEF	SBUS	273.69	174.68
tblVehicleEF	SBUS	897.42	955.12
tblVehicleEF	SBUS	1.14	2.66
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	1.2780e-003	3.4240e-003
tblVehicleEF	SBUS	1.74	1.00
tblVehicleEF	SBUS	1.84	1.47
tblVehicleEF	SBUS	1.82	0.55
tblVehicleEF	SBUS	8.1100e-004	6.2100e-004
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	8.5420e-003
tblVehicleEF	SBUS	1.9000e-005	3.8000e-005
tblVehicleEF	SBUS	7.7600e-004	5.9300e-004
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8940e-003	2.6600e-003
tblVehicleEF	SBUS	0.01	8.1550e-003
tblVehicleEF	SBUS	1.7000e-005	3.5000e-005
tblVehicleEF	SBUS	1.2700e-004	0.02
tblVehicleEF	SBUS	1.1990e-003	4.6440e-003
tblVehicleEF	SBUS	0.09	0.14

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tblVehicleEF	SBUS	6.3000e-005	0.00
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	2.6610e-003	0.01
tblVehicleEF	SBUS	7.7860e-003	0.02
tblVehicleEF	SBUS	2.5930e-003	1.5490e-003
tblVehicleEF	SBUS	8.5140e-003	8.7710e-003
tblVehicleEF	SBUS	1.1000e-005	2.6000e-005
tblVehicleEF	SBUS	1.2700e-004	0.02
tblVehicleEF	SBUS	1.1990e-003	4.6440e-003
tblVehicleEF	SBUS	0.13	0.25
tblVehicleEF	SBUS	6.3000e-005	0.00
tblVehicleEF	SBUS	0.03	0.15
tblVehicleEF	SBUS	2.6610e-003	0.01
tblVehicleEF	SBUS	8.5240e-003	0.02
tblVehicleEF	UBUS	1.60	0.53
tblVehicleEF	UBUS	1.4580e-003	0.02
tblVehicleEF	UBUS	12.04	6.12
tblVehicleEF	UBUS	0.21	2.10
tblVehicleEF	UBUS	1,536.63	974.40
tblVehicleEF	UBUS	2.68	17.20
tblVehicleEF	UBUS	0.25	0.13
tblVehicleEF	UBUS	3.5530e-003	0.02
tblVehicleEF	UBUS	0.61	0.19
tblVehicleEF	UBUS	0.02	0.13
tblVehicleEF	UBUS	0.08	0.17
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	4.6730e-003	3.5650e-003
tblVehicleEF	UBUS	4.6000e-005	1.2700e-004
tblVehicleEF	UBUS	0.03	0.06

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tblVehicleEF	UBUS	7.1530e-003	0.02
tblVehicleEF	UBUS	4.4630e-003	3.4030e-003
tblVehicleEF	UBUS	4.3000e-005	1.1700e-004
tblVehicleEF	UBUS	3.2600e-004	0.02
tblVehicleEF	UBUS	3.6920e-003	6.3870e-003
tblVehicleEF	UBUS	2.1700e-004	0.00
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	5.9700e-004	0.02
tblVehicleEF	UBUS	4.9160e-003	0.06
tblVehicleEF	UBUS	9.8390e-003	7.7840e-003
tblVehicleEF	UBUS	2.7000e-005	1.7000e-004
tblVehicleEF	UBUS	3.2600e-004	0.02
tblVehicleEF	UBUS	3.6920e-003	6.3870e-003
tblVehicleEF	UBUS	2.1700e-004	0.00
tblVehicleEF	UBUS	1.63	0.58
tblVehicleEF	UBUS	5.9700e-004	0.02
tblVehicleEF	UBUS	5.3830e-003	0.07
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2746	0.0268	1.6572	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7600e-003	1.6000e-004	11.7359
Energy	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	183.6301	183.6301	0.0154	3.4700e-003	185.0495
Mobile	0.6308	0.3906	3.6896	9.1300e-003	0.9032	5.8800e-003	0.9091	0.2253	5.5000e-003	0.2308	0.0000	844.2479	844.2479	0.0424	0.0390	856.9216
Waste						0.0000	0.0000		0.0000	0.0000	20.8228	0.0000	20.8228	1.2306	0.0000	51.5876
Water						0.0000	0.0000		0.0000	0.0000	5.1405	10.2403	15.3808	0.0194	0.0114	19.2557
Total	**1.9156**	**0.5041**	**5.3837**	**9.8200e-003**	**0.9032**	**0.0227**	**0.9259**	**0.2253**	**0.0223**	**0.2476**	**25.9633**	**1,049.7365**	**1,075.6998**	**1.3105**	**0.0540**	**1,124.5503**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2746	0.0268	1.6572	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7600e-003	1.6000e-004	11.7359
Energy	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	183.6301	183.6301	0.0154	3.4700e-003	185.0495
Mobile	0.6308	0.3906	3.6896	9.1300e-003	0.9032	5.8800e-003	0.9091	0.2253	5.5000e-003	0.2308	0.0000	844.2479	844.2479	0.0424	0.0390	856.9216
Waste						0.0000	0.0000		0.0000	0.0000	20.8228	0.0000	20.8228	1.2306	0.0000	51.5876
Water						0.0000	0.0000		0.0000	0.0000	5.1405	10.2403	15.3808	0.0194	0.0114	19.2557

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Total	**1.9156**	**0.5041**	**5.3837**	**9.8200e-003**	**0.9032**	**0.0227**	**0.9259**	**0.2253**	**0.0223**	**0.2476**	**25.9633**	**1,049.7365**	**1,075.6998**	**1.3105**	**0.0540**	**1,124.5503**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6308	0.3906	3.6896	9.1300e-003	0.9032	5.8800e-003	0.9091	0.2253	5.5000e-003	0.2308	0.0000	844.2479	844.2479	0.0424	0.0390	856.9216
Unmitigated	0.6308	0.3906	3.6896	9.1300e-003	0.9032	5.8800e-003	0.9091	0.2253	5.5000e-003	0.2308	0.0000	844.2479	844.2479	0.0424	0.0390	856.9216

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,213.12	1,094.93	912.07	2,663,505	2,663,505
Parking Lot	0.00	0.00	0.00		
Total	1,213.12	1,094.93	912.07	2,663,505	2,663,505

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4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.506938	0.037324	0.231190	0.143470	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857
Parking Lot	0.506938	0.037324	0.231190	0.143470	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.1572	83.1572	0.0135	1.6300e-003	83.9795
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.1572	83.1572	0.0135	1.6300e-003	83.9795
NaturalGas Mitigated	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700
NaturalGas Unmitigated	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.88279e+006	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0102**	**0.0868**	**0.0369**	**5.5000e-004**		**7.0100e-003**	**7.0100e-003**		**7.0100e-003**	**7.0100e-003**	**0.0000**	**100.4729**	**100.4729**	**1.9300e-003**	**1.8400e-003**	**101.0700**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.88279e+006	0.0102	0.0868	0.0369	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003	0.0000	100.4729	100.4729	1.9300e-003	1.8400e-003	101.0700
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0102**	**0.0868**	**0.0369**	**5.5000e-004**		**7.0100e-003**	**7.0100e-003**		**7.0100e-003**	**7.0100e-003**	**0.0000**	**100.4729**	**100.4729**	**1.9300e-003**	**1.8400e-003**	**101.0700**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	866661	80.1867	0.0130	1.5700e-003	80.9796
Parking Lot	32105.5	2.9705	4.8000e-004	6.0000e-005	2.9999
Total		**83.1572**	**0.0135**	**1.6300e-003**	**83.9795**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	866661	80.1867	0.0130	1.5700e-003	80.9796
Parking Lot	32105.5	2.9705	4.8000e-004	6.0000e-005	2.9999
Total		**83.1572**	**0.0135**	**1.6300e-003**	**83.9795**

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2746	0.0268	1.6572	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7600e-003	1.6000e-004	11.7359
Unmitigated	1.2746	0.0268	1.6572	1.4000e-004		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	11.6182	11.6182	2.7600e-003	1.6000e-004	11.7359

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.0000e-004	7.6900e-003	3.2700e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	8.9085	8.9085	1.7000e-004	1.6000e-004	8.9615
Landscaping	0.0496	0.0191	1.6539	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7096	2.7096	2.5900e-003	0.0000	2.7744
Total	**1.2746**	**0.0268**	**1.6572**	**1.4000e-004**		**9.8100e-003**	**9.8100e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**11.6182**	**11.6182**	**2.7600e-003**	**1.6000e-004**	**11.7358**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.0000e-004	7.6900e-003	3.2700e-003	5.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	8.9085	8.9085	1.7000e-004	1.6000e-004	8.9615
Landscaping	0.0496	0.0191	1.6539	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7096	2.7096	2.5900e-003	0.0000	2.7744
Total	**1.2746**	**0.0268**	**1.6572**	**1.4000e-004**		**9.8100e-003**	**9.8100e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**11.6182**	**11.6182**	**2.7600e-003**	**1.6000e-004**	**11.7358**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			

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Mitigated	15.3808	0.0194	0.0114	19.2557
Unmitigated	15.3808	0.0194	0.0114	19.2557

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.5293 / 9.15981	15.3808	0.0194	0.0114	19.2557
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**15.3808**	**0.0194**	**0.0114**	**19.2557**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.5293 / 9.15981	15.3808	0.0194	0.0114	19.2557
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**15.3808**	**0.0194**	**0.0114**	**19.2557**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	20.8228	1.2306	0.0000	51.5876
Unmitigated	20.8228	1.2306	0.0000	51.5876

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	102.58	20.8228	1.2306	0.0000	51.5876
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total		**20.8228**	**1.2306**	**0.0000**	**51.5876**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	102.58	20.8228	1.2306	0.0000	51.5876
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**20.8228**	**1.2306**	**0.0000**	**51.5876**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

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Equipment Type	Number

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	91.34	1000sqft	2.10	91,342.00	0
Parking Lot	120.68	1000sqft	2.77	120,676.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing land use - CalEEMod no Department Store land use, so used Strip Mall use

Construction Phase - Existing use - no construction

Off-road Equipment - Existing use - no construction

Grading -

Vehicle Trips - Traffic provided trip gen

Vehicle Emission Factors - EMFAC2021 vehicle emission factors Contra Costa County 2030

Fleet Mix - EMFAC2021 Fleet Mix Contra Costa County 2030

Energy Use - Historical Energy Use

Table Name	Column Name	Default Value	New Value

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tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	PhaseEndDate	10/7/2022	10/3/2022
tblEnergyUse	LightingElect	5.88	4.88
tblEnergyUse	LightingElect	0.88	0.35
tblEnergyUse	T24E	2.90	2.00
tblEnergyUse	T24NG	4.68	3.86
tblFleetMix	HHD	7.0880e-003	8.5760e-003
tblFleetMix	HHD	7.0880e-003	8.5760e-003
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDA	0.58	0.51
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.18	0.23
tblFleetMix	LDT2	0.18	0.23
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	5.5730e-003	6.7980e-003
tblFleetMix	LHD2	5.5730e-003	6.7980e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MDV	0.12	0.14
tblFleetMix	MH	2.8620e-003	2.8570e-003
tblFleetMix	MH	2.8620e-003	2.8570e-003
tblFleetMix	MHD	7.4350e-003	9.3340e-003
tblFleetMix	MHD	7.4350e-003	9.3340e-003
tblFleetMix	OBUS	5.3700e-004	5.0500e-004
tblFleetMix	OBUS	5.3700e-004	5.0500e-004
tblFleetMix	SBUS	1.7970e-003	7.6600e-004

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tblFleetMix	SBUS	1.7970e-003	7.6600e-004
tblFleetMix	UBUS	3.0500e-004	4.7400e-004
tblFleetMix	UBUS	3.0500e-004	4.7400e-004
tblLandUse	LandUseSquareFeet	91,340.00	91,342.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblVehicleEF	HHD	0.02	0.20
tblVehicleEF	HHD	0.04	0.09
tblVehicleEF	HHD	6.20	5.00
tblVehicleEF	HHD	0.40	0.63
tblVehicleEF	HHD	5.6660e-003	7.4900e-004
tblVehicleEF	HHD	917.03	721.73
tblVehicleEF	HHD	1,224.73	1,397.66
tblVehicleEF	HHD	0.04	6.2820e-003
tblVehicleEF	HHD	0.14	0.12
tblVehicleEF	HHD	0.19	0.22
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	5.13	3.83
tblVehicleEF	HHD	2.50	1.47
tblVehicleEF	HHD	2.37	2.60
tblVehicleEF	HHD	2.1040e-003	1.7840e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0130e-003	1.7000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8010e-003

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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	1.5000e-005
tblVehicleEF	HHD	4.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.42	0.31
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.1000e-005	4.2000e-005
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	8.5390e-003	6.2450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	1.5000e-005
tblVehicleEF	HHD	4.7000e-005	5.0000e-006
tblVehicleEF	HHD	0.48	0.54
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.07	0.10
tblVehicleEF	HHD	2.1000e-005	4.2000e-005
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	LDA	9.7700e-004	1.2690e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.40	0.48
tblVehicleEF	LDA	1.73	2.25
tblVehicleEF	LDA	202.49	223.58
tblVehicleEF	LDA	42.75	57.84
tblVehicleEF	LDA	3.2530e-003	3.2780e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.13	0.19
tblVehicleEF	LDA	0.04	6.9340e-003
tblVehicleEF	LDA	9.3000e-004	8.5000e-004

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tblVehicleEF	LDA	1.2990e-003	1.5420e-003
tblVehicleEF	LDA	0.02	2.4270e-003
tblVehicleEF	LDA	8.5600e-004	7.8200e-004
tblVehicleEF	LDA	1.1950e-003	1.4180e-003
tblVehicleEF	LDA	0.03	0.26
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	3.2790e-003	4.3810e-003
tblVehicleEF	LDA	0.02	0.20
tblVehicleEF	LDA	0.13	0.21
tblVehicleEF	LDA	2.0030e-003	2.2100e-003
tblVehicleEF	LDA	4.2300e-004	5.7200e-004
tblVehicleEF	LDA	0.03	0.26
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.7630e-003	6.3860e-003
tblVehicleEF	LDA	0.02	0.20
tblVehicleEF	LDA	0.14	0.24
tblVehicleEF	LDT1	1.7340e-003	3.2150e-003
tblVehicleEF	LDT1	0.04	0.08
tblVehicleEF	LDT1	0.53	0.88
tblVehicleEF	LDT1	1.87	3.79
tblVehicleEF	LDT1	245.74	299.50
tblVehicleEF	LDT1	52.42	78.05
tblVehicleEF	LDT1	3.9140e-003	5.9500e-003
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.03	0.07
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	0.04	8.8250e-003

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tblVehicleEF	LDT1	1.0760e-003	1.2750e-003
tblVehicleEF	LDT1	1.5120e-003	2.2190e-003
tblVehicleEF	LDT1	0.02	3.0890e-003
tblVehicleEF	LDT1	9.9000e-004	1.1720e-003
tblVehicleEF	LDT1	1.3910e-003	2.0400e-003
tblVehicleEF	LDT1	0.05	0.54
tblVehicleEF	LDT1	0.11	0.14
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	6.6990e-003	0.01
tblVehicleEF	LDT1	0.05	0.41
tblVehicleEF	LDT1	0.17	0.38
tblVehicleEF	LDT1	2.4320e-003	2.9610e-003
tblVehicleEF	LDT1	5.1900e-004	7.7200e-004
tblVehicleEF	LDT1	0.05	0.54
tblVehicleEF	LDT1	0.11	0.14
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	9.7740e-003	0.02
tblVehicleEF	LDT1	0.05	0.41
tblVehicleEF	LDT1	0.19	0.42
tblVehicleEF	LDT2	1.6650e-003	1.8230e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.53	0.62
tblVehicleEF	LDT2	2.29	2.81
tblVehicleEF	LDT2	252.89	306.67
tblVehicleEF	LDT2	54.34	77.74
tblVehicleEF	LDT2	4.0330e-003	4.4950e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.17	0.25

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tblVehicleEF	LDT2	0.04	8.4960e-003
tblVehicleEF	LDT2	1.0220e-003	9.9600e-004
tblVehicleEF	LDT2	1.3480e-003	1.6820e-003
tblVehicleEF	LDT2	0.02	2.9740e-003
tblVehicleEF	LDT2	9.4100e-004	9.1600e-004
tblVehicleEF	LDT2	1.2390e-003	1.5470e-003
tblVehicleEF	LDT2	0.05	0.26
tblVehicleEF	LDT2	0.09	0.07
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	6.1100e-003	6.4930e-003
tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	0.19	0.27
tblVehicleEF	LDT2	2.5020e-003	3.0310e-003
tblVehicleEF	LDT2	5.3800e-004	7.6900e-004
tblVehicleEF	LDT2	0.05	0.26
tblVehicleEF	LDT2	0.09	0.07
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	8.8770e-003	9.4600e-003
tblVehicleEF	LDT2	0.05	0.20
tblVehicleEF	LDT2	0.21	0.30
tblVehicleEF	LHD1	4.1100e-003	4.3200e-003
tblVehicleEF	LHD1	5.7660e-003	4.8460e-003
tblVehicleEF	LHD1	9.4440e-003	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.53	0.59
tblVehicleEF	LHD1	0.88	1.94
tblVehicleEF	LHD1	8.48	8.14
tblVehicleEF	LHD1	703.35	680.41
tblVehicleEF	LHD1	9.82	15.32

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tblVehicleEF	LHD1	7.8200e-004	6.6600e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.46	0.46
tblVehicleEF	LHD1	0.23	0.33
tblVehicleEF	LHD1	9.5900e-004	7.5300e-004
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	9.9600e-003	9.4740e-003
tblVehicleEF	LHD1	8.8420e-003	0.01
tblVehicleEF	LHD1	2.0700e-004	1.3600e-004
tblVehicleEF	LHD1	9.1800e-004	7.2000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4900e-003	2.3690e-003
tblVehicleEF	LHD1	8.4160e-003	0.01
tblVehicleEF	LHD1	1.9000e-004	1.2500e-004
tblVehicleEF	LHD1	1.4290e-003	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.6200e-004	0.00
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.20	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.2000e-005	7.9000e-005
tblVehicleEF	LHD1	6.8540e-003	6.6320e-003
tblVehicleEF	LHD1	9.7000e-005	1.5100e-004
tblVehicleEF	LHD1	1.4290e-003	0.09
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.03

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tblVehicleEF	LHD1	8.6200e-004	0.00
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.20	0.13
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD2	2.4740e-003	2.4110e-003
tblVehicleEF	LHD2	5.5240e-003	4.9900e-003
tblVehicleEF	LHD2	4.8040e-003	8.4240e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.52	0.41
tblVehicleEF	LHD2	0.46	1.00
tblVehicleEF	LHD2	13.32	13.80
tblVehicleEF	LHD2	684.04	727.53
tblVehicleEF	LHD2	6.22	7.88
tblVehicleEF	LHD2	1.7300e-003	1.7820e-003
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.50	0.60
tblVehicleEF	LHD2	0.13	0.17
tblVehicleEF	LHD2	1.5200e-003	1.5100e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-005	5.3000e-005
tblVehicleEF	LHD2	1.4540e-003	1.4450e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7190e-003	2.6610e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.1000e-005	4.9000e-005

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tblVehicleEF	LHD2	5.8000e-004	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8000e-004	0.00
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	LHD2	1.2700e-004	1.3200e-004
tblVehicleEF	LHD2	6.5940e-003	6.9920e-003
tblVehicleEF	LHD2	6.2000e-005	7.8000e-005
tblVehicleEF	LHD2	5.8000e-004	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.8000e-004	0.00
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.04
tblVehicleEF	MCY	0.33	0.15
tblVehicleEF	MCY	0.25	0.17
tblVehicleEF	MCY	18.61	11.88
tblVehicleEF	MCY	9.22	8.10
tblVehicleEF	MCY	212.79	187.18
tblVehicleEF	MCY	60.03	46.10
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1910e-003
tblVehicleEF	MCY	1.15	0.54
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1690e-003	1.9750e-003

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tblVehicleEF	MCY	2.8570e-003	3.3790e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0240e-003	1.8450e-003
tblVehicleEF	MCY	2.6750e-003	3.1670e-003
tblVehicleEF	MCY	0.87	4.22
tblVehicleEF	MCY	0.68	3.59
tblVehicleEF	MCY	0.53	0.00
tblVehicleEF	MCY	2.20	0.98
tblVehicleEF	MCY	0.44	3.87
tblVehicleEF	MCY	1.91	1.26
tblVehicleEF	MCY	2.1060e-003	1.8500e-003
tblVehicleEF	MCY	5.9400e-004	4.5600e-004
tblVehicleEF	MCY	0.87	0.10
tblVehicleEF	MCY	0.68	3.59
tblVehicleEF	MCY	0.53	0.00
tblVehicleEF	MCY	2.75	1.19
tblVehicleEF	MCY	0.44	3.87
tblVehicleEF	MCY	2.08	1.37
tblVehicleEF	MDV	2.0500e-003	2.3750e-003
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.57	0.70
tblVehicleEF	MDV	2.40	3.02
tblVehicleEF	MDV	311.83	371.71
tblVehicleEF	MDV	65.88	93.79
tblVehicleEF	MDV	5.7300e-003	6.0430e-003
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.04	0.06
tblVehicleEF	MDV	0.20	0.30
tblVehicleEF	MDV	0.04	8.6340e-003

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tblVehicleEF	MDV	1.0540e-003	1.0280e-003
tblVehicleEF	MDV	1.3740e-003	1.7010e-003
tblVehicleEF	MDV	0.02	3.0220e-003
tblVehicleEF	MDV	9.7200e-004	9.4700e-004
tblVehicleEF	MDV	1.2630e-003	1.5640e-003
tblVehicleEF	MDV	0.06	0.33
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	7.9840e-003	9.2720e-003
tblVehicleEF	MDV	0.05	0.25
tblVehicleEF	MDV	0.22	0.34
tblVehicleEF	MDV	3.0820e-003	3.6730e-003
tblVehicleEF	MDV	6.5200e-004	9.2700e-004
tblVehicleEF	MDV	0.06	0.33
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.25
tblVehicleEF	MDV	0.24	0.37
tblVehicleEF	MH	5.4430e-003	6.3460e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.36	0.40
tblVehicleEF	MH	1.61	1.86
tblVehicleEF	MH	1,366.60	1,644.80
tblVehicleEF	MH	15.37	19.63
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.24	1.45
tblVehicleEF	MH	0.24	0.31

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tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.9600e-004	2.1600e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3120e-003	3.3480e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.8000e-004	1.9800e-004
tblVehicleEF	MH	0.36	22.12
tblVehicleEF	MH	0.03	5.27
tblVehicleEF	MH	0.16	0.00
tblVehicleEF	MH	0.04	0.06
tblVehicleEF	MH	6.0610e-003	0.13
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.5200e-004	1.9400e-004
tblVehicleEF	MH	0.36	22.12
tblVehicleEF	MH	0.03	5.27
tblVehicleEF	MH	0.16	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	6.0610e-003	0.13
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MHD	4.2610e-003	0.02
tblVehicleEF	MHD	1.2290e-003	9.8710e-003
tblVehicleEF	MHD	9.3810e-003	6.6910e-003
tblVehicleEF	MHD	0.46	0.65
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	0.97	0.74
tblVehicleEF	MHD	77.33	151.16

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tblVehicleEF	MHD	1,028.73	1,072.59
tblVehicleEF	MHD	9.38	6.71
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	8.6830e-003	4.7960e-003
tblVehicleEF	MHD	0.42	0.79
tblVehicleEF	MHD	1.43	0.61
tblVehicleEF	MHD	1.66	1.24
tblVehicleEF	MHD	2.0900e-004	7.5400e-004
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	7.0780e-003	5.7900e-003
tblVehicleEF	MHD	1.2200e-004	8.1000e-005
tblVehicleEF	MHD	2.0000e-004	7.2000e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.7630e-003	5.5310e-003
tblVehicleEF	MHD	1.1200e-004	7.5000e-005
tblVehicleEF	MHD	3.0000e-004	0.02
tblVehicleEF	MHD	0.02	3.8010e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.9400e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.3400e-004	1.3890e-003
tblVehicleEF	MHD	9.8370e-003	0.01
tblVehicleEF	MHD	9.3000e-005	6.6000e-005
tblVehicleEF	MHD	3.0000e-004	0.02
tblVehicleEF	MHD	0.02	3.8010e-003
tblVehicleEF	MHD	0.03	0.04

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tblVehicleEF	MHD	1.9400e-004	0.00
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	OBUS	8.6630e-003	8.4990e-003
tblVehicleEF	OBUS	4.2740e-003	9.6200e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.55	0.53
tblVehicleEF	OBUS	0.45	0.60
tblVehicleEF	OBUS	2.37	2.58
tblVehicleEF	OBUS	71.40	73.26
tblVehicleEF	OBUS	1,312.44	1,408.48
tblVehicleEF	OBUS	18.77	20.35
tblVehicleEF	OBUS	9.3350e-003	9.7840e-003
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.29	0.25
tblVehicleEF	OBUS	1.05	1.01
tblVehicleEF	OBUS	0.77	0.69
tblVehicleEF	OBUS	9.8000e-005	2.8000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	6.3080e-003	0.02
tblVehicleEF	OBUS	2.1300e-004	1.9100e-004
tblVehicleEF	OBUS	9.3000e-005	2.6800e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	6.0110e-003	0.02
tblVehicleEF	OBUS	1.9600e-004	1.7500e-004
tblVehicleEF	OBUS	1.5430e-003	0.12
tblVehicleEF	OBUS	0.03	0.02

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tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	7.6900e-004	0.00
tblVehicleEF	OBUS	0.02	0.06
tblVehicleEF	OBUS	0.08	0.14
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	6.8100e-004	6.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8600e-004	2.0100e-004
tblVehicleEF	OBUS	1.5430e-003	0.12
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	7.6900e-004	0.00
tblVehicleEF	OBUS	0.03	0.08
tblVehicleEF	OBUS	0.08	0.14
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	1.7320e-003	0.11
tblVehicleEF	SBUS	1.4050e-003	3.2720e-003
tblVehicleEF	SBUS	1.41	1.43
tblVehicleEF	SBUS	0.17	0.58
tblVehicleEF	SBUS	0.20	0.43
tblVehicleEF	SBUS	273.69	174.68
tblVehicleEF	SBUS	897.42	955.12
tblVehicleEF	SBUS	1.14	2.66
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	1.2780e-003	3.4240e-003
tblVehicleEF	SBUS	1.74	1.00
tblVehicleEF	SBUS	1.84	1.47

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tblVehicleEF	SBUS	1.82	0.55
tblVehicleEF	SBUS	8.1100e-004	6.2100e-004
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	8.5420e-003
tblVehicleEF	SBUS	1.9000e-005	3.8000e-005
tblVehicleEF	SBUS	7.7600e-004	5.9300e-004
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8940e-003	2.6600e-003
tblVehicleEF	SBUS	0.01	8.1550e-003
tblVehicleEF	SBUS	1.7000e-005	3.5000e-005
tblVehicleEF	SBUS	1.2700e-004	0.02
tblVehicleEF	SBUS	1.1990e-003	4.6440e-003
tblVehicleEF	SBUS	0.09	0.14
tblVehicleEF	SBUS	6.3000e-005	0.00
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	2.6610e-003	0.01
tblVehicleEF	SBUS	7.7860e-003	0.02
tblVehicleEF	SBUS	2.5930e-003	1.5490e-003
tblVehicleEF	SBUS	8.5140e-003	8.7710e-003
tblVehicleEF	SBUS	1.1000e-005	2.6000e-005
tblVehicleEF	SBUS	1.2700e-004	0.02
tblVehicleEF	SBUS	1.1990e-003	4.6440e-003
tblVehicleEF	SBUS	0.13	0.25
tblVehicleEF	SBUS	6.3000e-005	0.00
tblVehicleEF	SBUS	0.03	0.15
tblVehicleEF	SBUS	2.6610e-003	0.01
tblVehicleEF	SBUS	8.5240e-003	0.02
tblVehicleEF	UBUS	1.60	0.53

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tblVehicleEF	UBUS	1.4580e-003	0.02
tblVehicleEF	UBUS	12.04	6.12
tblVehicleEF	UBUS	0.21	2.10
tblVehicleEF	UBUS	1,536.63	974.40
tblVehicleEF	UBUS	2.68	17.20
tblVehicleEF	UBUS	0.25	0.13
tblVehicleEF	UBUS	3.5530e-003	0.02
tblVehicleEF	UBUS	0.61	0.19
tblVehicleEF	UBUS	0.02	0.13
tblVehicleEF	UBUS	0.08	0.17
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	4.6730e-003	3.5650e-003
tblVehicleEF	UBUS	4.6000e-005	1.2700e-004
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	7.1530e-003	0.02
tblVehicleEF	UBUS	4.4630e-003	3.4030e-003
tblVehicleEF	UBUS	4.3000e-005	1.1700e-004
tblVehicleEF	UBUS	3.2600e-004	0.02
tblVehicleEF	UBUS	3.6920e-003	6.3870e-003
tblVehicleEF	UBUS	2.1700e-004	0.00
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	5.9700e-004	0.02
tblVehicleEF	UBUS	4.9160e-003	0.06
tblVehicleEF	UBUS	9.8390e-003	7.7840e-003
tblVehicleEF	UBUS	2.7000e-005	1.7000e-004
tblVehicleEF	UBUS	3.2600e-004	0.02
tblVehicleEF	UBUS	3.6920e-003	6.3870e-003
tblVehicleEF	UBUS	2.1700e-004	0.00
tblVehicleEF	UBUS	1.63	0.58

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tblVehicleEF	UBUS	5.9700e-004	0.02
tblVehicleEF	UBUS	5.3830e-003	0.07
tblVehicleTrips	ST_TR	42.04	21.70
tblVehicleTrips	SU_TR	20.43	10.55
tblVehicleTrips	WD_TR	44.32	22.88

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Energy	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	112.6763	112.6763	0.0151	2.1800e-003	113.7028
Mobile	0.9952	0.5093	4.7700	0.0103	0.9993	6.9300e-003	1.0062	0.2493	6.4700e-003	0.2558	0.0000	951.1282	951.1282	0.0607	0.0501	967.5619
Waste						0.0000	0.0000		0.0000	0.0000	19.4689	0.0000	19.4689	1.1506	0.0000	48.2333
Water						0.0000	0.0000		0.0000	0.0000	2.1465	4.7301	6.8766	0.2212	5.3000e-003	13.9862
Total	**1.4123**	**0.5297**	**4.7891**	**0.0104**	**0.9993**	**8.4900e-003**	**1.0078**	**0.2493**	**8.0300e-003**	**0.2573**	**21.6153**	**1,068.5385**	**1,090.1538**	**1.4476**	**0.0575**	**1,143.4882**

Mitigated Operational

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Energy	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	112.6763	112.6763	0.0151	2.1800e-003	113.7028
Mobile	0.9952	0.5093	4.7700	0.0103	0.9993	6.9300e-003	1.0062	0.2493	6.4700e-003	0.2558	0.0000	951.1282	951.1282	0.0607	0.0501	967.5619
Waste						0.0000	0.0000		0.0000	0.0000	19.4689	0.0000	19.4689	1.1506	0.0000	48.2333
Water						0.0000	0.0000		0.0000	0.0000	2.1465	4.7301	6.8766	0.2212	5.3000e-003	13.9862
Total	**1.4123**	**0.5297**	**4.7891**	**0.0104**	**0.9993**	**8.4900e-003**	**1.0078**	**0.2493**	**8.0300e-003**	**0.2573**	**21.6153**	**1,068.5385**	**1,090.1538**	**1.4476**	**0.0575**	**1,143.4882**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9952	0.5093	4.7700	0.0103	0.9993	6.9300e-003	1.0062	0.2493	6.4700e-003	0.2558	0.0000	951.1282	951.1282	0.0607	0.0501	967.5619

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Unmitigated	0.9952	0.5093	4.7700	0.0103	0.9993	6.9300e-003	1.0062	0.2493	6.4700e-003	0.2558	0.0000	951.1282	951.1282	0.0607	0.0501	967.5619

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	2,089.86	1,982.08	963.64	2,946,966	2,946,966
Parking Lot	0.00	0.00	0.00		
Total	2,089.86	1,982.08	963.64	2,946,966	2,946,966

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.506938	0.037324	0.231190	0.143470	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857
Strip Mall	0.506938	0.037324	0.231190	0.143470	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	90.4493	90.4493	0.0146	1.7700e-003	91.3437
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	90.4493	90.4493	0.0146	1.7700e-003	91.3437
NaturalGas Mitigated	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592
NaturalGas Unmitigated	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	416520	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592
Total		**2.2500e-003**	**0.0204**	**0.0172**	**1.2000e-004**		**1.5500e-003**	**1.5500e-003**		**1.5500e-003**	**1.5500e-003**	**0.0000**	**22.2271**	**22.2271**	**4.3000e-004**	**4.1000e-004**	**22.3592**

Mitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	416520	2.2500e-003	0.0204	0.0172	1.2000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	22.2271	22.2271	4.3000e-004	4.1000e-004	22.3592
Total		**2.2500e-003**	**0.0204**	**0.0172**	**1.2000e-004**		**1.5500e-003**	**1.5500e-003**		**1.5500e-003**	**1.5500e-003**	**0.0000**	**22.2271**	**22.2271**	**4.3000e-004**	**4.1000e-004**	**22.3592**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	42236.6	3.9079	6.3000e-004	8.0000e-005	3.9465
Strip Mall	935342	86.5414	0.0140	1.7000e-003	87.3971
Total		**90.4493**	**0.0146**	**1.7800e-003**	**91.3437**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	kWh/yr	MT/yr			
Parking Lot	42236.6	3.9079	6.3000e-004	8.0000e-005	3.9465
Strip Mall	935342	86.5414	0.0140	1.7000e-003	87.3971
Total		**90.4493**	**0.0146**	**1.7800e-003**	**91.3437**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Unmitigated	0.4149	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

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SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0502					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Total	**0.4149**	**2.0000e-005**	**1.9400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7900e-003**	**3.7900e-003**	**1.0000e-005**	**0.0000**	**4.0300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0502					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7900e-003	3.7900e-003	1.0000e-005	0.0000	4.0300e-003
Total	**0.4149**	**2.0000e-005**	**1.9400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7900e-003**	**3.7900e-003**	**1.0000e-005**	**0.0000**	**4.0300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.8766	0.2212	5.3000e-003	13.9862
Unmitigated	6.8766	0.2212	5.3000e-003	13.9862

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.76578 / 4.14677	6.8766	0.2212	5.3000e-003	13.9862
Total		**6.8766**	**0.2212**	**5.3000e-003**	**13.9862**

Mitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.76578 / 4.14677	6.8766	0.2212	5.3000e-003	13.9862
Total		**6.8766**	**0.2212**	**5.3000e-003**	**13.9862**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.4689	1.1506	0.0000	48.2333
Unmitigated	19.4689	1.1506	0.0000	48.2333

8.2 Waste by Land Use

Unmitigated

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	95.91	19.4689	1.1506	0.0000	48.2333
Total		**19.4689**	**1.1506**	**0.0000**	**48.2333**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	95.91	19.4689	1.1506	0.0000	48.2333
Total		**19.4689**	**1.1506**	**0.0000**	**48.2333**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment 3: EMFAC2021 Calculations

CalEEMod Construction Inputs

Phase	CalEEMod WORKER TRIPS	CalEEMod VENDOR TRIPS	Total Worker Trips	Total Vendor Trips	CalEEMod HAULING TRIPS	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	*Worker VMT*	*Vendor VMT*	*Hauling VMT*
Demolition	5	0	125	0	1011	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	1350	0	20220
Site Preparation	3	0	30	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	324	0	0
Grading	8	0	80	0	25	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	864	0	500
Trenching	5	0	300	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	3240	0	0
Building Construction	199	39	76018	14898	300	10.8	7.3	7.3	LD_Mix	HDT_Mix	HHDT	820994.4	108755.4	2190
Architectural Coating	40	0	15280	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	165024	0	0
Paving	10	0	200	0	228	10.8	7.3	7.3	LD_Mix	HDT_Mix	HHDT	2160	0	1664.4

Number of Days Per Year					
2022	9/5/22	12/31/22	118	84	
2023	1/1/23	12/31/23	365	261	
2024	1/1/24	9/6/24	250	179	
			733	**524**	***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	9/5/2022	10/7/2022	5	25
Site Preparation	10/10/2022	10/21/2022	5	10
Grading	10/24/2022	11/4/2022	5	10
Trenching	11/7/2022	1/27/2023	5	60
Building Construction	2/6/2023	7/23/2024	5	382
Architectural Coating	2/6/2023	7/23/2024	5	382
Paving	8/12/2024	9/6/2024	5	20

Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants YEAR	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
	Tons										*Metric Tons*			
Criteria Pollutants														
2022	0.0269	0.0859	0.2811	0.0009	0.0598	0.0059	0.0657	0.0090	0.0024	0.0114	84.3381	0.0040	0.0067	86.4446
2023	0.0778	0.2266	0.8086	0.0027	0.1850	0.0180	0.2031	0.0278	0.0072	0.0351	256.3021	0.0121	0.0203	262.6475
2024	0.0502	0.1465	0.5164	0.0018	0.1267	0.0123	0.1390	0.0191	0.0049	0.0239	172.3295	0.0079	0.0135	176.5604
Toxic Air Contaminants (0.5 Mile Trip Length)														
2022	0.0230	0.0238	0.0934	0.0001	0.0029	0.0004	0.0032	0.0004	0.0002	0.0006	6.9512	0.0019	0.0011	7.3397
2023	0.0677	0.0700	0.2726	0.0002	0.0089	0.0011	0.0100	0.0013	0.0005	0.0019	21.0505	0.0056	0.0035	22.2192
2024	0.0441	0.0468	0.1758	0.0001	0.0061	0.0007	0.0068	0.0009	0.0003	0.0013	14.1459	0.0037	0.0023	14.9235

CalEEMod EMFAC2021 Emission Factors Input

Year 2025

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.004971	0.0028	0.014738	0.226131949	0.008847	0	0	0.074477	0
A	CH4_RUNEX	0.001897	0.005426	0.002509	0.003661	0.007863	0.00707	0.010172	0.113806729	0.012841	0.28301329	0.173055	0.11835	0.009771
A	CH4_STREX	0.065498	0.1071	0.080225	0.10029	0.020635	0.010758	0.00883	6.64529E-08	0.028151	0.02718047	0.193703	0.00289	0.025158
A	CO_IDLEX	0	0	0	0	0.185733	0.133368	0.690723	5.170739837	0.495612	0	0	1.318735	0
A	CO_RUNEX	0.616496	1.265858	0.753221	0.913722	0.831096	0.555159	0.342009	0.756885729	1.0826	3.339692666	13.68942	0.641411	0.847606
A	CO_STREX	2.951499	5.322241	3.517758	3.90001	1.97181	1.044436	1.079897	0.000586063	3.174922	2.223834056	8.268265	0.395158	2.216556
A	CO2_NBIO_IDLEX	0	0	0	0	8.868894	14.19441	166.8791	816.2901664	67.21688	0	0	181.0007	0
A	CO2_NBIO_RUNEX	249.5715	325.409	335.8789	410.0734	767.4324	816.8069	1212.915	1585.336155	1583.117	1281.301183	189.6837	1030.326	1667.507
A	CO2_NBIO_STREX	64.981	86.37183	85.86557	104.2569	16.34365	8.602508	8.436886	0.009065541	24.03398	21.04441296	50.92332	2.46577	21.33098
A	NOX_IDLEX	0	0	0	0	0.059928	0.102686	0.942324	4.088131384	0.254222	0	0	1.197535	0
A	NOX_RUNEX	0.03512	0.113156	0.058783	0.096703	0.793173	0.930584	1.086827	1.802912961	1.150825	0.294440192	0.606376	2.084624	1.611288
A	NOX_STREX	0.236565	0.389114	0.31724	0.418717	0.405823	0.213714	1.417642	2.73257421	0.704211	0.223454083	0.148458	0.539012	0.298377
A	PM10_IDLEX	0	0	0	0	0.000801	0.001462	0.00206	0.002206	0.000282	0	0	0.000891	0
A	PM10_PMBW	0.007032	0.008901	0.008526	0.008732	0.077658	0.090584	0.045088	0.081427856	0.050157	0.116156591	0.012	0.044797	0.044943
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.009605	0.01081	0.012	0.035189579	0.012	0.030497955	0.004	0.010823	0.013289
A	PM10_RUNEX	0.001157	0.001777	0.001291	0.001366	0.01758	0.025999	0.012198	0.025536725	0.018265	0.005206531	0.001922	0.011242	0.035052
A	PM10_STREX	0.00194	0.002897	0.002071	0.002125	0.00019	8.17E-05	0.000106	3.00384E-07	0.000214	0.000151398	0.003517	3.34E-05	0.000257
A	PM25_IDLEX	0	0	0	0	0.000767	0.001399	0.001971	0.002104564	0.00027	0	0	0.000851	0
A	PM25_PMBW	0.002461	0.003115	0.002984	0.003056	0.02718	0.031704	0.015781	0.02849975	0.017555	0.040654807	0.0042	0.015679	0.01573
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002401	0.002703	0.003	0.008797395	0.003	0.007624489	0.001	0.002706	0.003322
A	PM25_RUNEX	0.001065	0.001635	0.001187	0.00126	0.016784	0.024859	0.011662	0.024428895	0.017455	0.004972732	0.001799	0.010739	0.033496
A	PM25_STREX	0.001784	0.002664	0.001904	0.001953	0.000175	7.51E-05	9.77E-05	2.76192E-07	0.000197	0.000139205	0.003309	3.07E-05	0.000236
A	ROG_DIURN	0.298427	0.631248	0.294814	0.387241	0.115401	0.058408	0.026894	7.17685E-05	0.122594	0.041479247	4.339573	0.012198	29.31096
A	ROG_HTSK	0.087375	0.174803	0.082403	0.102249	0.02955	0.014759	0.006657	2.17405E-05	0.028226	0.01467542	3.595139	0.003476	7.553817
A	ROG_IDLEX	0	0	0	0	0.020768	0.014991	0.026598	0.328312289	0.045843	0	0	0.133136	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.007152	0.02374	0.009566	0.015287	0.096678	0.124765	0.036304	0.018064734	0.083841	0.053439664	1.151119	0.040502	0.072795
A	ROG_RUNLS	0.226942	0.498164	0.222296	0.297187	0.163553	0.08006	0.054771	0.000194883	0.137265	0.03049981	3.831331	0.00807	0.176103
A	ROG_STREX	0.29945	0.548141	0.365089	0.496153	0.101475	0.052537	0.049291	3.60649E-07	0.150722	0.113432528	1.449272	0.01579	0.103153
A	SO2_IDLEX	0	0	0	0	8.61E-05	0.000136	0.001548	0.007133178	0.00064	0	0	0.001614	0
A	SO2_RUNEX	0.002467	0.003217	0.00332	0.004051	0.007482	0.007855	0.011504	0.01434851	0.01536	0.011432119	0.001875	0.009453	0.016342
A	SO2_STREX	0.000642	0.000854	0.000849	0.001031	0.000162	8.5E-05	8.34E-05	8.96221E-08	0.000238	0.000208045	0.000503	2.44E-05	0.000211
A	TOG_DIURN	0.298427	0.631248	0.294814	0.387241	0.115401	0.058408	0.026894	7.17685E-05	0.122594	0.041479247	0.107319	0.012198	29.31096
A	TOG_HTSK	0.087375	0.174803	0.082403	0.102249	0.02955	0.014759	0.006657	2.17405E-05	0.028226	0.01467542	3.595139	0.003476	7.553817
A	TOG_IDLEX	0	0	0	0	0.029288	0.020023	0.04487	0.585695274	0.061933	0	0	0.235899	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.010418	0.034626	0.013943	0.022246	0.116867	0.144438	0.051586	0.134136523	0.111482	0.34286207	1.375782	0.164035	0.093345
A	TOG_RUNLS	0.226942	0.498164	0.222296	0.297187	0.163553	0.08006	0.054771	0.000194883	0.137265	0.03049981	3.831331	0.00807	0.176103
A	TOG_STREX	0.32786	0.600145	0.399727	0.543225	0.111102	0.057521	0.053968	3.94865E-07	0.165021	0.12419434	1.575339	0.017288	0.11294
A	N2O_IDLEX	0	0	0	0	0.00073	0.001811	0.025764	0.13152428	0.008545	0	0	0.025574	0
A	N2O_RUNEX	0.004097	0.008695	0.005642	0.008422	0.045676	0.086983	0.155641	0.253003201	0.114849	0.16763728	0.041113	0.132906	0.070297
A	N2O_STREX	0.030639	0.039567	0.036732	0.040567	0.032686	0.017033	0.00597	4.46646E-06	0.023618	0.022026217	0.008632	0.00302	0.03205

CalEEMod EMFAC2021 Fleet Mix Input

Year 2025

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.508087	0.043691	0.221929	0.144147	0.02889	0.006646	0.008853	0.007902	0.000528	0.000481	0.02473	0.000735	0.003381
Parking Lot	0.508087	0.043691	0.221929	0.144147	0.02889	0.006646	0.008853	0.007902	0.000528	0.000481	0.02473	0.000735	0.003381

CalEEMod EMFAC2021 Fleet Mix Input

Year 2025

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.508087	0.043691	0.221929	0.144147	0.02889	0.006646	0.008853	0.007902	0.000528	0.000481	0.02473	0.000735	0.003381
Strip Mall	0.508087	0.043691	0.221929	0.144147	0.02889	0.006646	0.008853	0.007902	0.000528	0.000481	0.02473	0.000735	0.003381

CalEEMod EMFAC2021 Emission Factors Input

Year 2030

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.00432	0.002411	0.016723	0.19806439	0.008499	0	0	0.078426	0
A	CH4_RUNEX	0.001269	0.003215	0.001823	0.002375	0.004846	0.00499	0.009871	0.085930677	0.00962	0.528934697	0.152999	0.108841	0.006346
A	CH4_STREX	0.049071	0.078386	0.062985	0.072967	0.016634	0.008424	0.006691	3.79633E-08	0.023456	0.015552985	0.171769	0.003272	0.02256
A	CO_IDLEX	0	0	0	0	0.177499	0.130291	0.650118	4.996409447	0.532116	0	0	1.430616	0
A	CO_RUNEX	0.483212	0.875611	0.615507	0.695479	0.592818	0.409627	0.169892	0.627484616	0.601647	6.115246992	11.88386	0.578117	0.399217
A	CO_STREX	2.25275	3.792488	2.812187	3.015597	1.94107	1.004088	0.739312	0.000749481	2.57622	2.095930368	8.104801	0.425425	1.862289
A	CO2_NBIO_IDLEX	0	0	0	0	8.137989	13.79624	151.1621	721.7275863	73.25638	0	0	174.6771	0
A	CO2_NBIO_RUNEX	223.5805	299.5006	306.6675	371.7116	680.4097	727.533	1072.592	1397.657851	1408.484	974.4008593	187.1794	955.1228	1644.804
A	CO2_NBIO_STREX	57.83647	78.05279	77.74293	93.78582	15.32242	7.880828	6.714274	0.006282207	20.34927	17.20478362	46.10225	2.661698	19.63022
A	NOX_IDLEX	0	0	0	0	0.047754	0.088206	0.785044	3.827513309	0.25434	0	0	1.000253	0
A	NOX_RUNEX	0.023791	0.065551	0.038855	0.056595	0.45735	0.602149	0.614885	1.466575726	1.005161	0.194519657	0.543222	1.468109	1.45161
A	NOX_STREX	0.191089	0.298017	0.253957	0.301685	0.33247	0.173805	1.241086	2.598999224	0.689746	0.131897175	0.120393	0.549088	0.306744
A	PM10_IDLEX	0	0	0	0	0.000753	0.00151	0.000754	0.001783671	0.00028	0	0	0.000621	0
A	PM10_PMBW	0.006934	0.008825	0.008496	0.008634	0.074897	0.087381	0.043113	0.082336347	0.050072	0.172250456	0.012	0.043801	0.044937
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.009474	0.010644	0.012	0.035204165	0.012	0.068842924	0.004	0.010639	0.013393
A	PM10_RUNEX	0.00085	0.001275	0.000996	0.001028	0.012409	0.020167	0.00579	0.023730084	0.018347	0.003565311	0.001975	0.008542	0.030025
A	PM10_STREX	0.001542	0.002219	0.001682	0.001701	0.000136	5.28E-05	8.13E-05	8.25148E-08	0.000191	0.000127195	0.003379	3.79E-05	0.000216
A	PM25_IDLEX	0	0	0	0	0.00072	0.001445	0.00072	0.001699869	0.000268	0	0	0.000593	0
A	PM25_PMBW	0.002427	0.003089	0.002974	0.003022	0.026214	0.030583	0.015089	0.028817722	0.017525	0.06028766	0.0042	0.01533	0.015728
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002369	0.002661	0.003	0.008801041	0.003	0.017210731	0.001	0.00266	0.003348
A	PM25_RUNEX	0.000782	0.001172	0.000916	0.000947	0.011842	0.019282	0.005531	0.022700571	0.017534	0.003402953	0.001845	0.008155	0.028692
A	PM25_STREX	0.001418	0.00204	0.001547	0.001564	0.000125	4.85E-05	7.47E-05	7.58693E-08	0.000175	0.000116951	0.003167	3.49E-05	0.000198
A	ROG_DIURN	0.258266	0.537425	0.263181	0.334515	0.093512	0.048114	0.016574	1.47531E-05	0.124296	0.021055717	4.216616	0.019281	22.11954
A	ROG_HTSK	0.06884	0.13883	0.06775	0.082479	0.022551	0.011025	0.003801	4.66784E-06	0.024785	0.006386715	3.593625	0.004644	5.27339
A	ROG_IDLEX	0	0	0	0	0.017876	0.01351	0.021477	0.312223588	0.046283	0	0	0.144663	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.004381	0.013344	0.006493	0.009272	0.064233	0.094597	0.016319	0.014454875	0.06264	0.04094072	0.975931	0.033117	0.055982
A	ROG_RUNLS	0.195987	0.409399	0.198272	0.252823	0.132651	0.06452	0.032702	4.1535E-05	0.138552	0.024087754	3.868698	0.01316	0.127634
A	ROG_STREX	0.214831	0.380051	0.274777	0.340311	0.079383	0.039727	0.034862	2.05693E-07	0.125335	0.062116408	1.260607	0.017795	0.087945
A	SO2_IDLEX	0	0	0	0	7.9E-05	0.000132	0.001389	0.006244852	0.000696	0	0	0.001549	0
A	SO2_RUNEX	0.00221	0.002961	0.003031	0.003673	0.006632	0.006992	0.01015	0.012608465	0.013615	0.007783586	0.00185	0.008771	0.016106
A	SO2_STREX	0.000572	0.000772	0.000769	0.000927	0.000151	7.79E-05	6.64E-05	6.2106E-08	0.000201	0.000170087	0.000456	2.63E-05	0.000194
A	TOG_DIURN	0.258266	0.537425	0.263181	0.334515	0.093512	0.048114	0.016574	1.47531E-05	0.124296	0.021055717	0.100466	0.019281	22.11954
A	TOG_HTSK	0.06884	0.13883	0.06775	0.082479	0.022551	0.011025	0.003801	4.66784E-06	0.024785	0.006386715	3.593625	0.004644	5.27339
A	TOG_IDLEX	0	0	0	0	0.025116	0.01781	0.041068	0.539920975	0.061707	0	0	0.253924	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.006386	0.019471	0.00946	0.013491	0.076571	0.108672	0.02836	0.102161238	0.081398	0.57631496	1.185932	0.146359	0.068832
A	TOG_RUNLS	0.195987	0.409399	0.198272	0.252823	0.132651	0.06452	0.032702	4.1535E-05	0.138552	0.024087754	3.868698	0.01316	0.127634
A	TOG_STREX	0.235213	0.416108	0.300846	0.372597	0.086915	0.043496	0.03817	2.25208E-07	0.137226	0.068009648	1.370939	0.019484	0.096289
A	N2O_IDLEX	0	0	0	0	0.000666	0.001782	0.023452	0.116591061	0.009784	0	0	0.024228	0
A	N2O_RUNEX	0.003278	0.00595	0.004495	0.006043	0.039497	0.078457	0.136072	0.223239373	0.111663	0.129598758	0.038433	0.118461	0.070782
A	N2O_STREX	0.026715	0.034562	0.032886	0.034575	0.02854	0.014647	0.004796	2.14598E-08	0.019629	0.015328737	0.007191	0.003424	0.033982

CalEEMod EMFAC2021 Fleet Mix Input

Year 2030

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.506938	0.037324	0.23119	0.14347	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857
Parking Lot	0.506938	0.037324	0.23119	0.14347	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857

CalEEMod EMFAC2021 Fleet Mix Input

Year 2030

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.506938	0.037324	0.23119	0.14347	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857
Strip Mall	0.506938	0.037324	0.23119	0.14347	0.027941	0.006798	0.009334	0.008576	0.000505	0.000474	0.023826	0.000766	0.002857

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Contra Costa
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Contra Cos	2022	HHDT	Aggregate	Aggregate	Gasoline	0.94961	42.91313	42.91313	0	18.99979	0	14.74367	0	1.953097	0.004692	0	0.001847	0.005	0.03489	0.005103	0	0.002008	0.02	0.099684	2292.395	0	50.27516	0.317009	0	0.000333	0.340682	0	0.035927	1.970537	0	0.001807	0.155406	1.39326	10.2595	2.875403	0	0.001979	0.155406	1.39326	10.2595	0.040632	80.51082	0	1.460234	0.022663	0	0.000497
Contra Cos	2022	HHDT	Aggregate	Aggregate	Diesel	4876.64	5854118.4	5854118.4	0	71120.8	0	2.493344	67.9396	2.510732	0.027875	0.03664	0	0.008786	0.028067	0.029136	0.038297	0	0.035143	0.080192	1674.33	12669.18	0	0.001514	0.236515	0	0.000333	0.263791	1.996034	0	0.032588	5.092094	0	0	0	0.037098	5.796961	0	0	0	0.202964	0.129334	70.16742	0	0.015855	0.11997	0
Contra Cos	2022	HHDT	Aggregate	Aggregate	Natural Ga	385.4563	27747.23	27747.23	0	3379.215	0	1.21098	13.4563	0	0.001622	0.02165	0	0.009	0.048167	0.001764	0.023547	0	0.036	0.137621	1421.445	10306.62	0	2.643113	36.01867	0	0.289771	2.101071	0	0.053054	0.544258	0	0	0	2.71491	36.79345	0	0	0	0.845753	14.80898	72.16616	0	0	0	0
Contra Cos	2022	LDA	Aggregate	Aggregate	Gasoline	342251.9	12704199	12704199	0	1582160	0	0.053811	0	0.299062	0.001252	0	0.002102	0.002	0.002577	0.001362	0	0.002286	0.008	0.007364	288.2671	0	73.99093	0.002872	0	0.084048	0.005406	0	0.035763	0.011437	0	0.399907	0.104882	0.268505	1.608905	0.016685	0	0.437846	0.104882	0.268505	1.608905	0.032629	0.826815	0	3.831512	0.00285	0	0.000731
Contra Cos	2022	LDA	Aggregate	Aggregate	Diesel	1556.091	46980.83	46980.83	0	6671.794	0	0.248685	0	0	0.016925	0	0	0.002	0.002609	0.017691	0	0	0.008	0.007453	238.6119	0	0	0.001314	0	0	0.037593	0	0	0.028287	0	0	0	0	0.032203	0	0	0	0	0.0031	0.334128	0	0	0.002261	0	0
Contra Cos	2022	LDA	Aggregate	Aggregate	Electricity	14864.66	645474.7	0	645474.7	74237.19	249206.5	0	0	0	0	0	0	0.002	0.001529	0	0	0	0.008	0.00437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2022	LDA	Aggregate	Aggregate	Plug-in Hyb	7196.971	332010.2	172871.5	159138.7	29759.48	48064.63	0.003345	0	0.116031	0.000707	0	0.002254	0.002	0.001343	0.000769	0	0.002452	0.008	0.003836	142.3669	0	67.27533	0.000451	0	0.043173	0.000615	0	0.02132	0.001415	0	0.174307	0.040893	0.035537	0.452532	0.002065	0	0.190845	0.040893	0.035537	0.452532	0.019655	0.217933	0	1.351845	0.001407	0	0.000665
Contra Cos	2022	LDT1	Aggregate	Aggregate	Gasoline	34814.39	1206518	1206518	0	153809	0	0.157631	0	0.460779	0.001905	0	0.003131	0.002	0.003116	0.002072	0	0.003405	0.008	0.008902	340.4737	0	91.89263	0.007577	0	0.129243	0.011224	0	0.043016	0.033984	0	0.684193	0.19932	0.588022	3.171783	0.049564	0	0.749102	0.19932	0.588022	3.171783	0.035178	1.633734	0	6.590588	0.003366	0	0.000908
Contra Cos	2022	LDT1	Aggregate	Aggregate	Diesel	20.69714	267.2283	267.2283	0	62.24244	0	1.575354	0	0	0.219668	0	0	0.002	0.003572	0.2296	0	0	0.008	0.010206	416.2118	0	0	0.01415	0	0	0.065574	0	0	0.304639	0	0	0	0	0	0.346812	0	0	0	0	0	0.0031	1.903133	0	0	0.003944	0	0
Contra Cos	2022	LDT1	Aggregate	Aggregate	Electricity	59.99006	2170.551	0	2170.551	282.6663	838.0119	0	0	0	0	0	0	0.002	0.00154	0	0	0	0.008	0.004399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2022	LDT1	Aggregate	Aggregate	Plug-in Hyb	12.39529	658.3717	315.6759	342.6959	51.25454	103.5044	0.00308	0	0.116031	0.000423	0	0.001483	0.002	0.001353	0.00046	0	0.001613	0.008	0.003864	131.1014	0	73.5389	0.000418	0	0.043493	0.000574	0	0.021619	0.001303	0	0.174307	0.025323	0.023242	0.300853	0.001902	0	0.190845	0.025323	0.023242	0.300853	0.020138	0.200688	0	1.351845	0.001296	0	0.000727
Contra Cos	2022	LDT2	Aggregate	Aggregate	Gasoline	152545.3	6089113	6089113	0	712346.6	0	0.084112	0	0.39352	0.00129	0	0.002053	0.002	0.003002	0.001403	0	0.002233	0.008	0.008578	359.6852	0	92.65589	0.003304	0	0.095303	0.006848	0	0.041211	0.013134	0	0.448579	0.091113	0.236598	1.452298	0.019161	0	0.491137	0.091113	0.236598	1.452298	0.034138	0.925398	0	4.226119	0.003556	0	0.000916
Contra Cos	2022	LDT2	Aggregate	Aggregate	Diesel	617.4094	26019.32	26019.32	0	2945.699	0	0.057247	0	0	0.005792	0	0	0.002	0.002979	0.006054	0	0	0.008	0.008511	327.3135	0	0	0.000645	0	0	0.051568	0	0	0.013884	0	0	0	0	0	0.015807	0	0	0	0	0	0.0031	0.133018	0	0	0.003101	0	0
Contra Cos	2022	LDT2	Aggregate	Aggregate	Electricity	321.1387	11813.65	0	11813.65	1653.634	4561.044	0	0	0	0	0	0	0.002	0.001524	0	0	0	0.008	0.004353	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2022	LDT2	Aggregate	Aggregate	Plug-in Hyb	642.6868	33021.02	15417.76	16603.26	2657.51	5014.68	0.003194	0	0.116031	0.000569	0	0.001922	0.002	0.001348	0.000618	0	0.002091	0.008	0.00385	135.9441	0	80.00076	0.000433	0	0.04351	0.000596	0	0.021634	0.001352	0	0.174307	0.027109	0.02555	0.333195	0.001972	0	0.190845	0.027109	0.02555	0.333195	0.02081	0.208101	0	1.351845	0.001344	0	0.000791
Contra Cos	2022	LHDT1	Aggregate	Aggregate	Gasoline	12752.81	469718.4	469718.4	0	189997.8	0	0.22613	0.039069	0.695889	0.001629	0	0.000339	0.002	0.0273	0.001772	0	0.000368	0.008	0.078	917.1213	121.811	25.92854	0.009936	0.120321	0.036425	0.012722	0.003091	0.053787	0.048979	0.447571	0.18222	0.052729	0.280313	2.912185	0.07147	0.653094	0.199508	0.052729	0.280313	2.912185	0.0449	1.216454	3.751729	3.013961	0.009067	0.001204	0.000256
Contra Cos	2022	LHDT1	Aggregate	Aggregate	Diesel	8526.488	320734.9	320734.9	0	107252.5	0	2.283715	2.250049	0	0.047248	0.026941	0	0.003	0.0273	0.049384	0.028159	0	0.012	0.078	643.2706	136.1358	0	0.010237	0.005098	0	0.101348	0.021448	0	0.220404	0.10976	0	0	0	0.250915	0.124954	0	0	0	0.148887	0.639869	0.909745	0	0.006095	0.00129	0
Contra Cos	2022	LHDT2	Aggregate	Aggregate	Gasoline	1468.157	53325.84	53325.84	0	21873.35	0	0.214134	0.038731	0.686665	0.001482	0	0.000286	0.002	0.03185	0.001612	0	0.000311	0.008	0.091	1027.388	140.6162	25.99998	0.008371	0.119767	0.035809	0.012513	0.003057	0.052931	0.03996	0.443934	0.178478	0.049455	0.258222	2.734156	0.05831	0.647787	0.195411	0.049455	0.258222	2.734156	0.044963	1.066983	3.757785	3.04973	0.010157	0.00139	0.000257
Contra Cos	2022	LHDT2	Aggregate	Aggregate	Diesel	3184.049	125312.6	125312.6	0	40051.33	0	1.633652	2.181886	0	0.040204	0.026563	0	0.003	0.03185	0.042022	0.027764	0	0.012	0.091	781.1079	216.6256	0	0.008832	0.005098	0	0.123064	0.034129	0	0.190148	0.10976	0	0	0	0.216471	0.124954	0	0	0	0.169353	0.505942	0.909745	0	0.007401	0.002053	0
Contra Cos	2022	MCY	Aggregate	Aggregate	Gasoline	18165.83	103207.3	103207.3	0	36331.67	0	0.660027	0	0.168352	0.001795	0	0.003661	0.001	0.0042	0.001913	0	0.003879	0.004	0.012	191.8303	0	54.38043	0.190246	0	0.209387	0.043406	0	0.009662	1.301017	0	1.583907	3.593247	3.785188	4.344139	1.537958	0	1.721205	3.593247	3.785188	4.344139	0.008574	15.24331	0	8.405171	0.001896	0	0.000538
Contra Cos	2022	MDV	Aggregate	Aggregate	Gasoline	101727.3	3770749	3770749	0	466583.5	0	0.146028	0	0.554511	0.001368	0	0.002266	0.002	0.003092	0.001488	0	0.002464	0.008	0.008834	439.7977	0	114.022	0.005281	0	0.127336	0.01009	0	0.047754	0.022853	0	0.656623	0.114591	0.317061	1.86037	0.033295	0	0.718914	0.114591	0.317061	1.86037	0.033911	1.205931	0	4.903732	0.004348	0	0.001127
Contra Cos	2022	MDV	Aggregate	Aggregate	Diesel	1626.04	66029.63	66029.63	0	7730.283	0	0.074919	0	0	0.006226	0	0	0.002	0.00303	0.006507	0	0	0.008	0.008658	426.0378	0	0	0.000591	0	0	0.067122	0	0	0.012717	0	0	0	0	0	0.014477	0	0	0	0	0	0.0031	0.208489	0	0	0.004037	0	0
Contra Cos	2022	MDV	Aggregate	Aggregate	Electricity	313.2678	11548.52	0	11548.52	1614.349	4458.681	0	0	0	0	0	0	0.002	0.001523	0	0	0	0.008	0.004351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2022	MDV	Aggregate	Aggregate	Plug-in Hyb	467.0708	22259.21	11487.57	10771.64	1931.338	3253.356	0.003315	0	0.116031	0.000755	0	0.002462	0.002	0.001344	0.000821	0	0.002678	0.008	0.003839	141.1093	0	100.3501	0.000448	0	0.04331	0.000613	0	0.021448	0.001403	0	0.174307	0.031316	0.030596	0.389375	0.002047	0	0.190845	0.031316	0.030596	0.389375	0.021675	0.216008	0	1.351845	0.001395	0	0.000992
Contra Cos	2022	MH	Aggregate	Aggregate	Gasoline	1942.03	17478.98	17478.98	0	194.2807	0	0.453601	0	0.412079	0.001627	0	0.000392	0.003	0.015756	0.00177	0	0.000426	0.012	0.045017	1947.658	0	31.71891	0.01643	0	0.038004	0.027293	0	0.042862	0.072529	0	0.161592	12.55027	0.28362	4.519886	0.105834	0	0.176923	12.55027	0.28362	4.519886	0.044764	1.769688	0	3.535096	0.019255	0	0.000314
Contra Cos	2022	MH	Aggregate	Aggregate	Diesel	774.8975	7470.596	7470.596	0	77.48975	0	4.604312	0	0	0.113463	0	0	0.004	0.015675	0.118594	0	0	0.016	0.044785	1079.511	0	0	0.006003	0	0	0.170077	0	0	0.12924	0	0	0	0	0	0.147131	0	0	0	0	0	0.135248	0.44008	0	0	0.010229	0	0
Contra Cos	2022	MHDT	Aggregate	Aggregate	Gasoline	760.2326	36884	36884	0	15210.73	0	0.806331	0.087783	0.485924	0.001466	0	0.000623	0.003	0.015756	0.001594	0	0.000677	0.012	0.045017	1831.306	546.0915	49.29618	0.026142	0.245454	0.054062	0.03564	0.006519	0.032229	0.133548	1.002233	0.315814	0.047607	0.391233	3.731908	0.194873	1.462455	0.345777	0.047607	0.391233	3.731908	0.044936	2.854324	14.9948	6.980582	0.018104	0.005399	0.000487
Contra Cos	2022	MHDT	Aggregate	Aggregate	Diesel	5416.221	227901.7	227901.7	0	62339.09	0	1.888986	16.38051	1.475298	0.022611	0.049656	0	0.003	0.015873	0.023634	0.051901	0	0.012	0.045352	1155.385	2377.452	0	0.002656	0.014427	0	0.182031	0.374569	0	0.057192	0.310604	0	0	0	0.065108	0.353599	0	0	0	0.192946	0.180381	7.301481	0	0.010941	0.022513	0
Contra Cos	2022	MHDT	Aggregate	Aggregate	Natural Ga	47.18583	2180.673	2180.673	0	450.673	0	0.160254	6.392933	0	0.001006	0.01613	0	0.003	0.015956	0.001094	0.017543	0	0.012	0.045588	993.2547	5164.018	0	0.710501	17.64838	0	0.202481	1.052719	0	0.010152	0.25216	0	0	0	0.725119	18.01146	0	0	0	1.06	2.955167	30.39041	0	0	0	0
Contra Cos	2022	OBUS	Aggregate	Aggregate	Gasoline	269.9172	12629.34	12629.34	0	5400.503	0	0.725624	0.065135	0.443584	0.000791	0	0.000246	0.003	0.01568	0.000861	0	0.000268	0.012	0.044799	1815.385	386.0883	32.73981	0.020364	0.193175	0.039153	0.033419	0.005038	0.031628	0.099726	0.747331	0.210061	0.034718	0.146788	2.645509	0.145521	1.090503	0.229991	0.034718	0.146788	2.645509	0.044945	2.257227	5.781094	4.38875	0.017947	0.003817	0.000324
Contra Cos	2022	OBUS	Aggregate	Aggregate	Diesel	128.6037	9060.968	9060.968	0	1493.98	0	2.586783	14.48077	1.332791	0.042392	0.015486	0	0.003	0.020104	0.044309	0.016186	0	0.012	0.057439	1423.944	2619.111	0	0.005689	0.039252	0	0.224343	0.412642	0	0.122475	0.845094	0	0	0	0.139428	0.962075	0	0	0	0.185497	0.343718	12.18888	0	0.013484	0.024801	0
Contra Cos	2022	OBUS	Aggregate	Aggregate	Natural Ga	1.733087	87.73898	87.73898	0	15.42448	0	0.273944	1.566987	0	0.000662	0.003194	0	0.003	0.016148	0.00072	0.003474	0	0.012	0.046137	1080.03	1234.392	0	0.744029	4.602018	0	0.220171	0.251639	0	0.010631	0.065754	0	0	0	0.759336	4.696697	0	0	0	1.06	3.131021	5.762647	0	0	0	0
Contra Cos	2022	SBUS	Aggregate	Aggregate	Gasoline	69.53403	3727.158	3727.158	0	278.1361	0	0.231746	0.926612	0.638702	0.001042	0	0.00069	0.002	0.015721	0.001134	0	0.00075	0.008	0.044917	796.2228	2550.006	55.01595	0.005745	2.509928	0.063243	0.01659	0.093322	0.063633	0.026807	10.62747	0.347244	0.067738	0.147346	0.857374	0.039117	15.50758	0.380189	0.067738	0.147346	0.857374	0.045	0.639846	82.15693	8.977528	0.007871	0.025209	0.000544
Contra Cos	2022	SBUS	Aggregate	Aggregate	Diesel	421.0702	10044.5	10044.5	0	6097.096	0	3.28034	19.55857	0.535727	0.016684	0.015092	0	0.003	0.015721	0.017439	0.015774	0	0.012	0.044917	1141.29	2259.034	0	0.002341	0.007942	0	0.179811	0.355912	0	0.050406	0.170997	0	0	0	0.057383	0.194667	0	0	0	0.152457	0.159412	4.935042	0	0.010807	0.021392	0
Contra Cos	2022	SBUS	Aggregate	Aggregate	Natural Ga	18.77398	473.0373	473.0373	0	271.1233	0	0.635122	5.314184	0	0.003378	0.010325	0	0.003	0.015721	0.003674	0.011229	0	0.012	0.044917	1304.685	4068.974	0	3.623373	15.79112	0	0.265969	0.829487	0	0.051171	0.225624	0	0	0	3.697918	16.116	0	0	0	1.06	12.5276	18.41885	0	0	0	0
Contra Cos	2022	UBUS	Aggregate	Aggregate	Gasoline	101.8023	5556.009	5556.009	0	407.2093	0	0.130612	0	0.704431	0.001127	0	0.000473	0.002504	0.035199	0.001225	0	0.000514	0.010015	0.10057	1389.806	0	71.62326	0.003009	0	0.08404	0.013003	0	0.07271	0.009605	0	0.347336	0.037173	0.092604	0.48552	0.014016	0	0.380289	0.037173	0.092604	0.48552	0.045	0.425889	0	7.679693	0.01374	0	0.000708
Contra Cos	2022	UBUS	Aggregate	Aggregate	Diesel	226.9669	23428.05	23428.05	0	907.8676	0	1.567467	0	0	0.006813	0	0	0.00775	0.0385	0.007121	0	0	0.031001	0.11	1387.036	0	0	0.005089	0	0	0.218528	0	0	0.109568	0	0	0	0	0	0.124734	0	0	0	0.176079	0.13107	0	0	0.013143	0	0
Contra Cos	2022	UBUS	Aggregate	Aggregate	Electricity	12.11222	336.0646	0	336.0646	48.44887	585.8427	0	0	0	0	0	0	0.005752	0.01925	0	0	0	0.023008	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2022	UBUS	Aggregate	Aggregate	Natural Ga	5.246462	329.1585	329.1585	0	20.98585	0	0.046445	0	0	0.000246	0	0	0.006561	0.0385	0.000257	0	0	0.026245	0.11	1165.072	0	0	3.711986	0	0	0.237507	0	0	0.053037	0	0	0	0	0	3.788354	0	0	0	0	0.97	39.7207	0	0	0	0	0

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Contra Costa
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Contra Cos	2023	HHDT	Aggregate	Aggregate	Gasoline	0.93031	50.36094	50.36094	0	18.61364	0	11.99912	0	2.516083	0.00397	0	0.00188	0.005	0.033715	0.004318	0	0.002045	0.02	0.096329	2201.09	0	50.49124	0.263044	0	0.000342	0.285404	0	0.045482	1.622253	0	0.001854	0.147939	1.326229	9.766383	2.367187	0	0.002029	0.147939	1.326229	9.766383	0.041057	72.93109	0	1.942975	0.02176	0	0.000499
Contra Cos	2023	HHDT	Aggregate	Aggregate	Diesel	4942.555	589482.5	589482.5	0	72214.08	0	2.006672	63.49015	2.822279	0.026526	0.033657	0	0.008786	0.027603	0.027725	0.035178	0	0.035143	0.078867	1653.995	1222.7	0	0.000845	0.237028	0	0.260588	1.926006	0	0.018196	5.103152	0	0	0	0	0.020715	5.80955	0	0	0	0	0.21423	0.090451	73.92679	0	0.015662	0.115761	0
Contra Cos	2023	HHDT	Aggregate	Aggregate	Electricity	3.721557	233.3092	0	233.3092	59.15551	427.6929	0	0	0	0	0	0	0.008787	0.013262	0	0	0	0.03515	0.03789	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	HHDT	Aggregate	Aggregate	Natural Ga	440.129	31102.72	31102.72	0	4036.563	0	1.091767	13.83746	0	0.001545	0.023681	0	0.009	0.047114	0.001681	0.025756	0	0.036	0.13461	1391.855	10638.61	0	2.41294	37.50548	0	0.283739	2.168751	0	0.046853	0.55942	0	0	0	0	2.476684	38.30391	0	0	0	0	0.855978	14.02771	72.61266	0	0	0	0
Contra Cos	2023	LDA	Aggregate	Aggregate	Gasoline	339849	12783779	12783779	0	1570116	0	0.047752	0	0.283543	0.001211	0	0.002029	0.002	0.002577	0.001317	0	0.002207	0.008	0.007364	283.7744	0	72.56977	0.002574	0	0.079426	0.005034	0	0.034896	0.010037	0	0.372465	0.101976	0.26199	1.576357	0.014644	0	0.407801	0.101976	0.26199	1.576357	0.033582	0.771435	0	3.602554	0.002805	0	0.000717
Contra Cos	2023	LDA	Aggregate	Aggregate	Diesel	1457.686	43468.17	43468.17	0	6205.568	0	0.224887	0	0	0.015578	0	0	0.002	0.002618	0.016282	0	0	0.008	0.007479	237.1689	0	0	0.001222	0	0	0.037366	0	0	0.026301	0	0	0	0	0	0.029942	0	0	0	0	0	0.0031	0.324171	0	0	0.000247	0	0
Contra Cos	2023	LDA	Aggregate	Aggregate	Electricity	17209.23	777009.9	0	777009.9	85607.03	299990	0	0	0	0	0	0	0.002	0.00153	0	0	0	0.008	0.004372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	LDT1	Aggregate	Aggregate	Plug-in HyE	8110.999	376134.6	191257.2	184877.5	33538.98	55838.51	0.003266	0	0.116031	0.000651	0	0.002133	0.002	0.001348	0.000708	0	0.002319	0.008	0.003851	139.0343	0	66.53834	0.000439	0	0.043077	0.000598	0	0.021231	0.001382	0	0.174307	0.041822	0.036712	0.448366	0.002017	0	0.190845	0.041822	0.036712	0.448366	0.019547	0.212844	0	1.351845	0.001374	0	0.000658
Contra Cos	2023	LDT1	Aggregate	Aggregate	Gasoline	33659.33	1179551	1179551	0	148489.7	0	0.141318	0	0.436314	0.001798	0	0.002968	0.002	0.00312	0.001955	0	0.003228	0.008	0.008914	336.2327	0	90.14388	0.006794	0	0.121724	0.010314	0	0.041946	0.030196	0	0.636875	0.192229	0.561286	3.064956	0.044052	0	0.697296	0.192229	0.561286	3.064956	0.035354	1.498317	0	6.136672	0.003324	0	0.000891
Contra Cos	2023	LDT1	Aggregate	Aggregate	Diesel	18.53994	234.1819	234.1819	0	54.7031	0	1.571202	0	0	0.219307	0	0	0.002	0.00357	0.229223	0	0	0.008	0.010199	416.1105	0	0	0.014108	0	0	0.065558	0	0	0.303743	0	0	0	0	0	0.345791	0	0	0	0	0	0.0031	1.894083	0	0	0.003943	0	0
Contra Cos	2023	LDT1	Aggregate	Aggregate	Electricity	67.1466	2606.54	0	2606.54	317.9241	1006.339	0	0	0	0	0	0	0.002	0.001538	0	0	0	0.008	0.004394	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	LDT1	Aggregate	Aggregate	Plug-in HyE	22.01851	1175.667	542.2365	633.4305	91.04656	191.3149	0.002963	0	0.116031	0.000389	0	0.001416	0.002	0.00136	0.000423	0	0.00154	0.008	0.003887	126.1107	0	72.43565	0.0004	0	0.043318	0.000548	0	0.021456	0.001254	0	0.174307	0.024799	0.021839	0.285714	0.001829	0	0.190845	0.024799	0.021839	0.285714	0.019371	0.193059	0	1.351845	0.001247	0	0.000716
Contra Cos	2023	LDT2	Aggregate	Aggregate	Gasoline	154436.8	6246460	6246460	0	720661	0	0.074237	0	0.365564	0.001252	0	0.002004	0.002	0.003004	0.001362	0	0.00218	0.008	0.008584	353.0288	0	90.6807	0.003016	0	0.090461	0.006322	0	0.039756	0.011791	0	0.42041	0.088706	0.232135	1.430285	0.017205	0	0.460295	0.088706	0.232135	1.430285	0.03502	0.86364	0	3.989951	0.00349	0	0.000896
Contra Cos	2023	LDT2	Aggregate	Aggregate	Diesel	633.6789	26711.66	26711.66	0	3009.847	0	0.051739	0	0	0.005339	0	0	0.002	0.002997	0.00558	0	0	0.008	0.008563	323.5579	0	0	0.000614	0	0	0.050977	0	0	0.013229	0	0	0	0	0	0.01506	0	0	0	0	0	0.0031	0.131399	0	0	0.003066	0	0
Contra Cos	2023	LDT2	Aggregate	Aggregate	Electricity	543.2354	20038.9	0	20038.9	2787.246	7736.671	0	0	0	0	0	0	0.002	0.001524	0	0	0	0.008	0.004356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	LDT2	Aggregate	Aggregate	Plug-in HyE	866.1413	44564.16	21442.66	23121.51	3581.494	6983.384	0.003091	0	0.116031	0.000507	0	0.001768	0.002	0.001355	0.000552	0	0.001923	0.008	0.00387	131.565	0	78.99327	0.000418	0	0.043345	0.000572	0	0.021481	0.001308	0	0.174307	0.026463	0.024521	0.317578	0.001909	0	0.190845	0.026463	0.024521	0.317578	0.020159	0.201409	0	1.351845	0.001301	0	0.000781
Contra Cos	2023	LHDT1	Aggregate	Aggregate	Gasoline	12655.99	475389.3	475389.3	0	188555.4	0	0.203647	0.038096	0.678196	0.001574	0	0.000317	0.002	0.0273	0.001712	0	0.000345	0.008	0.078	899.5109	120.8528	25.9178	0.009071	0.118167	0.035078	0.011492	0.003069	0.053191	0.044649	0.436486	0.17434	0.051327	0.278016	2.90411	0.065152	0.636919	0.19088	0.051327	0.278016	2.90411	0.044908	1.161059	3.753975	3.048239	0.008893	0.001195	0.000256
Contra Cos	2023	LHDT1	Aggregate	Aggregate	Diesel	8519.363	324282.2	324282.2	0	107162.9	0	2.083739	2.171999	0	0.044534	0.026799	0	0.003	0.0273	0.046548	0.02801	0	0.012	0.078	840.4074	134.8876	0	0.009712	0.005098	0	0.100896	0.021252	0	0.209098	0.10976	0	0	0	0	0.238044	0.124954	0	0	0	0	0.155572	0.601279	0.909745	0	0.006068	0.001278	0
Contra Cos	2023	LHDT2	Aggregate	Aggregate	Gasoline	1464.124	54160.16	54160.16	0	21813.26	0	0.190529	0.037574	0.669303	0.001417	0	0.000262	0.002	0.03185	0.001541	0	0.000285	0.008	0.091	1008.946	139.5138	25.80974	0.007315	0.116985	0.034409	0.011286	0.003012	0.0522	0.034561	0.430774	0.170204	0.047408	0.248912	2.662836	0.050432	0.628585	0.186352	0.047408	0.248912	2.662836	0.044968	0.983304	3.76104	3.06164	0.009974	0.001379	0.000255
Contra Cos	2023	LHDT2	Aggregate	Aggregate	Diesel	3253.077	128992.1	128992.1	0	40919.62	0	1.495095	2.094788	0	0.038248	0.026557	0	0.003	0.03185	0.039978	0.027758	0	0.012	0.091	774.0388	214.507	0	0.008451	0.005098	0	0.12195	0.033796	0	0.181935	0.10976	0	0	0	0	0.207121	0.124954	0	0	0	0	0.174411	0.480675	0.909745	0	0.007334	0.002033	0
Contra Cos	2023	MCY	Aggregate	Aggregate	Gasoline	18091.31	103634.4	103634.4	0	36182.62	0	0.640323	0	0.161475	0.001792	0	0.003505	0.001	0.0042	0.001911	0	0.003718	0.004	0.012	191.0343	0	53.16126	0.183942	0	0.203891	0.042563	0	0.009306	1.246009	0	1.536415	3.594601	3.805706	4.364089	1.478381	0	1.66975	3.594601	3.805706	4.364089	0.008632	14.67123	0	8.354105	0.001889	0	0.000526
Contra Cos	2023	MDV	Aggregate	Aggregate	Gasoline	101544	3817544	3817544	0	465423.7	0	0.12818	0	0.510218	0.001309	0	0.002167	0.002	0.003091	0.001423	0	0.002357	0.008	0.008831	432.3998	0	111.7761	0.004717	0	0.119058	0.009169	0	0.045686	0.020103	0	0.605312	0.112325	0.316505	1.868961	0.029305	0	0.662737	0.112325	0.316505	1.868961	0.034653	1.105927	0	4.586992	0.004275	0	0.001105
Contra Cos	2023	MDV	Aggregate	Aggregate	Diesel	1630.417	65604.49	65604.49	0	7692.548	0	0.069337	0	0	0.006039	0	0	0.002	0.003063	0.006312	0	0	0.008	0.008752	422.7944	0	0	0.000576	0	0	0.066611	0	0	0.012392	0	0	0	0	0	0.014107	0	0	0	0	0	0.0031	0.208565	0	0	0.004006	0	0
Contra Cos	2023	MDV	Aggregate	Aggregate	Electricity	571.1055	21131.77	0	21131.77	2933.275	8158.608	0	0	0	0	0	0	0.002	0.001524	0	0	0	0.008	0.004354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	MDV	Aggregate	Aggregate	Plug-in HyE	565.8702	27057.56	13541.14	13516.42	2339.873	4082.362	0.003215	0	0.116031	0.000671	0	0.002254	0.002	0.00135	0.00073	0	0.002451	0.008	0.003858	136.8404	0	98.94654	0.000433	0	0.043167	0.000591	0	0.021315	0.00136	0	0.174307	0.030964	0.029027	0.368292	0.001985	0	0.190845	0.030964	0.029027	0.368292	0.021019	0.209485	0	1.351845	0.001353	0	0.000978
Contra Cos	2023	MH	Aggregate	Aggregate	Gasoline	1847.487	16879.83	16879.83	0	184.8226	0	0.411604	0	0.420095	0.001555	0	0.000372	0.003	0.015756	0.001692	0	0.000405	0.012	0.045017	1947.128	0	31.5317	0.014492	0	0.0376	0.025583	0	0.044243	0.062465	0	0.157883	12.0571	0.274723	4.453138	0.091148	0	0.172774	12.0571	0.274723	4.453138	0.044843	1.46331	0	3.42513	0.019249	0	0.000312
Contra Cos	2023	MH	Aggregate	Aggregate	Diesel	776.6235	7486.65	7486.65	0	77.66235	0	4.492778	0	0	0.10927	0	0	0.004	0.015675	0.11421	0	0	0.016	0.044785	1079.925	0	0	0.005939	0	0	0.170143	0	0	0.127854	0	0	0	0	0	0.145554	0	0	0	0	0	0.139663	0.433613	0	0	0.010233	0	0
Contra Cos	2023	MHDT	Aggregate	Aggregate	Gasoline	750.2651	37968.85	37968.85	0	15011.3	0	0.666402	0.08802	0.474311	0.001418	0	0.000589	0.003	0.015756	0.001542	0	0.00064	0.012	0.045017	1801.931	540.6593	48.24018	0.021497	0.250342	0.052124	0.03042	0.006791	0.032714	0.108926	1.005771	0.299734	0.043847	0.360493	3.478037	0.158944	1.467619	0.328171	0.043847	0.360493	3.478037	0.04496	2.312221	15.03585	6.598327	0.017814	0.005345	0.000477
Contra Cos	2023	MHDT	Aggregate	Aggregate	Diesel	5453.026	229951	229951	0	62830.4	0	1.451258	14.43296	1.635165	0.018233	0.041107	0	0.003	0.015873	0.019058	0.042965	0	0.012	0.045352	1148.719	2311.829	0	0.001883	0.013104	0	0.18098	0.36423	0	0.040542	0.282117	0	0	0	0	0.046154	0.321169	0	0	0	0	0.206712	0.140515	7.637089	0	0.010878	0.021892	0
Contra Cos	2023	MHDT	Aggregate	Aggregate	Electricity	2.531394	54.31117	0	54.31117	29.65281	58.3871	0	0	0	0	0	0	0.003	0.007948	0	0	0	0.012	0.022707	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	MHDT	Aggregate	Aggregate	Natural Ga	46.83625	2246.698	2246.698	0	430.5727	0	0.13931	6.458025	0	0.001121	0.017666	0	0.003	0.015956	0.001219	0.019213	0	0.012	0.045588	981.8217	5263.934	0	0.728488	17.32964	0	0.200151	1.073087	0	0.010409	0.247606	0	0	0	0	0.743476	17.68617	0	0	0	0	1.06	2.955847	33.74335	0	0	0	0
Contra Cos	2023	OBUS	Aggregate	Aggregate	Gasoline	261.9127	12187.45	12187.45	0	5240.348	0	0.680818	0.065137	0.440699	0.00083	0	0.000251	0.003	0.01568	0.000903	0	0.000274	0.012	0.044799	1795.284	383.9227	32.51731	0.019001	0.193564	0.03859	0.031488	0.005072	0.031618	0.093203	0.74737	0.206797	0.036302	0.162606	2.921978	0.136002	1.090561	0.226417	0.036302	0.162606	2.921978	0.044944	2.079447	5.781333	4.347025	0.017748	0.003795	0.000321
Contra Cos	2023	OBUS	Aggregate	Aggregate	Diesel	127.7261	9153.783	9153.783	0	1488.894	0	1.878375	12.59649	1.550952	0.038819	0.014499	0	0.003	0.019958	0.039917	0.015155	0	0.012	0.057022	1418.726	2569.659	0	0.004152	0.039511	0	0.223521	0.404851	0	0.089398	0.850661	0	0	0	0	0.101772	0.968413	0	0	0	0	0.20771	0.266618	13.20622	0	0.013434	0.024333	0
Contra Cos	2023	OBUS	Aggregate	Aggregate	Natural Ga	0.958613	50.52101	50.52101	0	8.531659	0	0.25096	1.551253	0	0.000771	0.003569	0	0.003	0.016148	0.000839	0.003882	0	0.012	0.046137	1055.21	1234.828	0	0.756622	4.407761	0	0.215111	0.251728	0	0.010811	0.062978	0	0	0	0	0.772189	4.498443	0	0	0	0	1.06	3.16495	6.6088	0	0	0	0
Contra Cos	2023	SBUS	Aggregate	Aggregate	Gasoline	72.51602	3942.492	3942.492	0	290.0641	0	0.213507	0.92653	0.64521	0.000972	0	0.000658	0.002	0.015721	0.001057	0	0.000715	0.008	0.044917	791.0345	2535.372	54.45394	0.004708	2.521517	0.062751	0.015824	0.093655	0.064713	0.021714	10.64152	0.343264	0.065872	0.143031	0.879261	0.031686	15.52808	0.375831	0.065872	0.143031	0.879261	0.045	0.513775	82.24088	8.787652	0.00782	0.025065	0.000538
Contra Cos	2023	SBUS	Aggregate	Aggregate	Diesel	424.7008	10038.86	10038.86	0	6149.667	0	3.196504	19.31349	0.54375	0.016297	0.014361	0	0.003	0.015721	0.017034	0.015011	0	0.012	0.044917	1139.243	2253.905	0	0.002332	0.0079	0	0.179488	0.355104	0	0.050207	0.170096	0	0	0	0	0.057157	0.193641	0	0	0	0	0.154427	0.159672	4.981621	0	0.010788	0.021343	0
Contra Cos	2023	SBUS	Aggregate	Aggregate	Electricity	0.035906	0.416236	0	0.416236	0.519915	0.438486	0	0	0	0	0	0	0.003	0.00786	0	0	0	0.012	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	SBUS	Aggregate	Aggregate	Natural Ga	19.10918	478.2572	478.2572	0	276.7009	0	0.626051	5.308513	0	0.003378	0.01046	0	0.003	0.015721	0.003674	0.011376	0	0.012	0.044917	1299.977	4072.281	0	3.598381	15.72111	0	0.265009	0.830161	0	0.051414	0.224624	0	0	0	0	3.672411	16.04454	0	0	0	0	1.06	12.40999	18.72385	0	0	0	0
Contra Cos	2023	UBUS	Aggregate	Aggregate	Gasoline	102.1046	5572.509	5572.509	0	408.4186	0	0.13826	0	0.716648	0.001127	0	0.000473	0.002504	0.035199	0.001226	0	0.000515	0.010015	0.10057	1389.672	0	71.56508	0.002979	0	0.086298	0.013557	0	0.072998	0.009529	0	0.357612	0.039049	0.092598	0.48981	0.013905	0	0.39154	0.039049	0.092598	0.48981	0.045	0.432744	0	7.623965	0.013738	0	0.000707
Contra Cos	2023	UBUS	Aggregate	Aggregate	Diesel	225.1599	23149.45	23149.45	0	900.6396	0	1.390344	0	0	0.006695	0	0	0.00779	0.0385	0.006997	0	0	0.031159	0.11	1371.96	0	0	0.004828	0	0	0.216153	0	0	0.103948	0	0	0	0	0	0.118337	0	0	0	0	0	0.184554	0.123941	0	0	0.013	0	0
Contra Cos	2023	UBUS	Aggregate	Aggregate	Electricity	12.11222	336.0646	0	336.0646	48.44887	585.8427	0	0	0	0	0	0	0.005752	0.01925	0	0	0	0.023008	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2023	UBUS	Aggregate	Aggregate	Natural Ga	7.779029	679.3075	679.3075	0	31.11611	0	0.040823	0	0	0.000229	0	0	0.005823	0.0385	0.000239	0	0	0.02329	0.11	1103.974	0	0	3.468718	0	0	0.225052	0	0	0.049561	0	0	0	0	0	3.540081	0	0	0	0	0	0.97	35.47223	0	0	0	0	0

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Contra Costa
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Contra Cos	2024	HHDT	Aggregate	Aggregate	Gasoline	0.816074	55.87227	55.87227	0	16.328	0	8.6939	0	1.873313	0.003134	0	0.00172	0.005	0.032698	0.003408	0	0.001871	0.02	0.093421	2106.934	0	50.66709	0.200749	0	0.000333	0.227065	0	0.034385	1.202291	0	0.001806	0.136314	1.221957	9.000433	1.75438	0	0.001978	0.136314	1.221957	9.000433	0.042266	57.56407	0	2.589861	0.020829	0	0.000501
Contra Cos	2024	HHDT	Aggregate	Aggregate	Diesel	5091.693	595371.7	595371.7	0	74503.86	0	1.930546	62.96331	2.873632	0.026199	0.031874	0	0.008787	0.027531	0.027384	0.033315	0	0.035147	0.078661	1631.917	11982.35	0	0.000811	0.236179	0	0.257109	1.887824	0	0.017455	5.084867	0	0	0	0	0.019871	5.788735	0	0	0	0	0.214705	0.085379	73.84127	0	0.015453	0.113466	0
Contra Cos	2024	HHDT	Aggregate	Aggregate	Electricity	16.20269	1607.756	0	1607.756	218.2082	2965.201	0	0	0	0	0	0	0	0.008633	0.014149	0	0	0	0	0	0	0	0	0	0	0	0	0.034532	0.040427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	HHDT	Aggregate	Aggregate	Natural Ga	463.3199	31836.4	31836.4	0	4230.919	0	1.027379	13.49364	0	0.0001521	0.024267	0	0.009	0.047839	0.001654	0.026393	0	0.036	0.136682	1382.057	10598.55	0	2.316772	36.4292	0	0.281741	2.160585	0	0.044095	0.54083	0	0	0	0	2.37696	37.20183	0	0	0	0	0.848422	13.63864	73.09795	0	0	0	0
Contra Cos	2024	LDA	Aggregate	Aggregate	Gasoline	337675	12810091	12810091	0	1559344	0	0.042774	0	0.269747	0.001172	0	0.001963	0.002	0.002577	0.001275	0	0.002135	0.008	0.007363	279.1416	0	71.15677	0.002323	0	0.075093	0.004725	0	0.034048	0.008869	0	0.347567	0.09805	0.253484	1.530303	0.012941	0	0.380542	0.09805	0.253484	1.530303	0.03453	0.723821	0	3.396378	0.00276	0	0.000703
Contra Cos	2024	LDA	Aggregate	Aggregate	Diesel	1353.056	39823.37	39823.37	0	5730.346	0	0.201679	0	0	0.013984	0	0	0	0.002	0.002626	0.014616	0	0	0.008	0.007503	235.5835	0	0	0.001113	0	0	0.023967	0	0	0	0	0	0	0	0.027285	0	0	0	0	0	0.0031	0.313711	0	0	0.002232	0	0
Contra Cos	2024	LDA	Aggregate	Aggregate	Electricity	19605.83	914777.5	0	914777.5	97154.5	353179.6	0	0	0	0	0	0	0	0.002	0.001531	0	0	0	0.008	0.004374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	LDA	Aggregate	Aggregate	Plug-in Hyb	8994.061	416941.1	206977.6	209963.5	37190.44	63415.24	0.003189	0	0.116031	0.000604	0	0.002032	0.002	0.001353	0.000657	0	0.00221	0.008	0.003866	135.7392	0	65.79045	0.000427	0	0.04295	0.000581	0	0.021113	0.001349	0	0.174307	0.042074	0.037993	0.448409	0.001969	0	0.190845	0.042074	0.037993	0.448409	0.01936	0.207809	0	1.351845	0.001342	0	0.00065
Contra Cos	2024	LDT1	Aggregate	Aggregate	Gasoline	32588.84	1149589	1149589	0	143596.2	0	0.126611	0	0.412989	0.001699	0	0.002813	0.002	0.003123	0.001847	0	0.00306	0.008	0.008924	331.7524	0	88.40993	0.006087	0	0.114499	0.009482	0	0.040862	0.026821	0	0.592296	0.183852	0.531516	2.935021	0.039133	0	0.648489	0.183852	0.531516	2.935021	0.035583	1.379197	0	5.724466	0.00328	0	0.000874
Contra Cos	2024	LDT1	Aggregate	Aggregate	Diesel	16.66144	204.9391	204.9391	0	48.22098	0	1.564535	0	0	0.218678	0	0	0	0.002	0.003567	0.228566	0	0	0.008	0.01019	415.8048	0	0	0.01406	0	0	0.06551	0	0	0.30271	0	0	0	0	0	0	0	0	0	0	0	0.0031	1.885762	0	0	0.00394	0	0
Contra Cos	2024	LDT1	Aggregate	Aggregate	Electricity	76.85346	3197.231	0	3197.231	366.3379	1234.395	0	0	0	0	0	0	0	0.002	0.001536	0	0	0	0.008	0.004389	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	LDT1	Aggregate	Aggregate	Plug-in Hyb	34.40585	1835.08	820.5478	1014.532	142.2682	306.4188	0.002872	0	0.116031	0.000368	0	0.001385	0.002	0.001367	0.000401	0	0.001506	0.008	0.003905	122.266	0	71.39816	0.000387	0	0.04315	0.000527	0	0.0213	0.001215	0	0.174307	0.024335	0.020998	0.279132	0.001774	0	0.190845	0.024335	0.020998	0.279132	0.01878	0.187183	0	1.351845	0.001209	0	0.000706
Contra Cos	2024	LDT2	Aggregate	Aggregate	Gasoline	156321.2	6370854	6370854	0	728853.1	0	0.066232	0	0.341975	0.001218	0	0.001964	0.002	0.003007	0.001325	0	0.002136	0.008	0.008591	346.5217	0	88.7715	0.002769	0	0.085834	0.005892	0	0.038438	0.010661	0	0.394503	0.085773	0.227695	1.406593	0.015556	0	0.431931	0.085773	0.227695	1.406593	0.035861	0.811135	0	3.773535	0.003426	0	0.000878
Contra Cos	2024	LDT2	Aggregate	Aggregate	Diesel	646.5782	27148.78	27148.78	0	3058.021	0	0.047035	0	0	0.00495	0	0	0	0.002	0.003012	0.005174	0	0	0.008	0.008606	319.5714	0	0	0.000588	0	0	0.050349	0	0	0.012669	0	0	0	0	0	0.014422	0	0	0	0	0	0.0031	0.129992	0	0	0.003028	0	0
Contra Cos	2024	LDT2	Aggregate	Aggregate	Electricity	793.6604	29152.88	0	29152.88	4055.082	11255.42	0	0	0	0	0	0	0	0.002	0.001526	0	0	0	0.008	0.004359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	LDT2	Aggregate	Aggregate	Plug-in Hyb	1079.607	55187.64	25870.71	29316.93	4464.177	8854.586	0.003011	0	0.116031	0.00047	0	0.00168	0.002	0.00136	0.000511	0	0.001827	0.008	0.003887	128.1809	0	78.1146	0.000406	0	0.043174	0.000553	0	0.021322	0.001274	0	0.174307	0.026184	0.023751	0.308551	0.001859	0	0.190845	0.026184	0.023751	0.308551	0.01965	0.196238	0	1.351845	0.001267	0	0.000772
Contra Cos	2024	LHDT1	Aggregate	Aggregate	Gasoline	12544.46	477189.8	477189.8	0	186893.8	0	0.182895	0.037136	0.660732	0.001523	0	0.000296	0.002	0.0273	0.001657	0	0.000322	0.008	0.078	883.3561	119.8786	25.89323	0.008182	0.115961	0.033829	0.010359	0.003043	0.052527	0.040066	0.425548	0.167164	0.049067	0.269595	2.826667	0.058465	0.620959	0.183024	0.049067	0.269595	2.826667	0.044926	1.100819	3.756248	3.084379	0.008733	0.001185	0.000256
Contra Cos	2024	LHDT1	Aggregate	Aggregate	Diesel	8493.033	325049.8	325049.8	0	106831.7	0	1.902094	2.096693	0	0.042035	0.026663	0	0.003	0.0273	0.043936	0.027868	0	0.012	0.078	637.7323	133.6535	0	0.009216	0.005098	0	0.100475	0.021057	0	0.198422	0.10976	0	0	0	0	0.22589	0.124954	0	0	0	0	0.161674	0.565507	0.909745	0	0.006043	0.001266	0
Contra Cos	2024	LHDT1	Aggregate	Aggregate	Electricity	36.01443	2734.933	0	2734.933	503.0987	1790.294	0	0	0	0	0	0	0	0.002	0.001365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	LHDT2	Aggregate	Aggregate	Gasoline	1457.071	54488.41	54488.41	0	21708.18	0	0.1695	0.036468	0.651128	0.001363	0	0.00024	0.002	0.03185	0.001483	0	0.000261	0.008	0.091	992.0567	138.4119	25.61897	0.006351	0.11425	0.033089	0.010187	0.002966	0.05135	0.029579	0.418188	0.162551	0.045142	0.240449	2.594034	0.043162	0.610219	0.177973	0.045142	0.240449	2.594034	0.044977	0.912363	3.763971	3.07478	0.009807	0.001368	0.000253
Contra Cos	2024	LHDT2	Aggregate	Aggregate	Diesel	3307.739	131282.3	131282.3	0	41607.19	0	1.372474	2.013483	0	0.03647	0.026565	0	0.003	0.03185	0.038119	0.027766	0	0.012	0.091	767.6312	212.4725	0	0.008092	0.005098	0	0.120941	0.033475	0	0.174214	0.10976	0	0	0	0	0.198331	0.124954	0	0	0	0	0.1789	0.45776	0.909745	0	0.007724	0.002013	0
Contra Cos	2024	LHDT2	Aggregate	Aggregate	Electricity	9.32166	670.7023	0	670.7023	123.3905	432.4063	0	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	MCY	Aggregate	Aggregate	Gasoline	18015.43	103611.2	103611.2	0	36030.87	0	0.627529	0	0.154855	0.001784	0	0.003322	0.001	0.0042	0.001905	0	0.003528	0.004	0.012	190.319	0	51.99124	0.17822	0	0.19855	0.041803	0	0.008963	1.196001	0	1.490348	3.594851	3.818752	4.350545	1.424317	0	1.619841	3.594851	3.818752	4.350545	0.008686	14.15387	0	8.307287	0.001881	0	0.000514
Contra Cos	2024	MDV	Aggregate	Aggregate	Gasoline	101283.8	3842162	3842162	0	463945.3	0	0.112518	0	0.469642	0.001255	0	0.002078	0.002	0.00309	0.001364	0	0.00226	0.008	0.00883	424.9334	0	109.5335	0.004212	0	0.111111	0.008357	0	0.043719	0.017666	0	0.557133	0.109036	0.313522	1.860658	0.025769	0	0.609989	0.109036	0.313522	1.860658	0.035368	1.015537	0	4.290893	0.004201	0	0.001083
Contra Cos	2024	MDV	Aggregate	Aggregate	Diesel	1627.303	64622.95	64622.95	0	7621.121	0	0.064476	0	0	0.005867	0	0	0	0.002	0.003092	0.006132	0	0	0.008	0.008834	419.221	0	0	0.000562	0	0	0.066048	0	0	0.012091	0	0	0	0	0	0.013765	0	0	0	0	0	0.0031	0.208344	0	0	0.003972	0	0
Contra Cos	2024	MDV	Aggregate	Aggregate	Electricity	849.9285	31289.89	0	31289.89	4345.87	12080.48	0	0	0	0	0	0	0	0.002	0.001525	0	0	0	0.008	0.004357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	MDV	Aggregate	Aggregate	Plug-in Hyb	698.7309	33546.04	16194.29	17351.75	2889.252	5240.746	0.003101	0	0.116031	0.000592	0	0.00206	0.002	0.001357	0.000643	0	0.00224	0.008	0.003878	132.0011	0	97.26482	0.000416	0	0.042999	0.000566	0	0.021159	0.001312	0	0.174307	0.031719	0.027705	0.350178	0.001915	0	0.190845	0.031719	0.027705	0.350178	0.020275	0.202086	0	1.351845	0.001305	0	0.000962
Contra Cos	2024	MH	Aggregate	Aggregate	Gasoline	1757.818	16248.56	16248.56	0	175.8522	0	0.37633	0	0.428394	0.001501	0	0.000358	0.003	0.015756	0.001632	0	0.000389	0.012	0.045017	1946.725	0	31.37115	0.012947	0	0.037222	0.024129	0	0.045579	0.054565	0	0.154391	11.62496	0.269284	4.436274	0.079621	0	0.169038	11.62496	0.269284	4.436274	0.044898	1.230558	0	3.331168	0.019245	0	0.00031
Contra Cos	2024	MH	Aggregate	Aggregate	Diesel	778.1731	7477.583	7477.583	0	77.81731	0	4.383869	0	0	0.105073	0	0	0	0.004	0.015675	0.109824	0	0	0.016	0.044785	1080.303	0	0	0.005865	0	0	0.170202	0	0	0.126259	0	0	0	0	0	0.143738	0	0	0	0	0	0.143851	0.42605	0	0	0.010236	0	0
Contra Cos	2024	MHDT	Aggregate	Aggregate	Gasoline	739.4954	38664.27	38664.27	0	14795.82	0	0.55459	0.088236	0.460865	0.001384	0	0.000559	0.003	0.015756	0.001505	0	0.000608	0.012	0.045017	1775.67	535.3324	47.25014	0.01775	0.254717	0.050243	0.026228	0.007039	0.032986	0.089039	1.009005	0.284517	0.039968	0.329327	3.209877	0.129926	1.472338	0.31151	0.039968	0.329327	3.209877	0.044979	1.873618	15.07336	6.250748	0.017554	0.005292	0.000467
Contra Cos	2024	MHDT	Aggregate	Aggregate	Diesel	5511.487	231443.3	231443.3	0	63570.96	0	1.33374	13.933	1.657065	0.015845	0.034178	0	0.003	0.015873	0.016561	0.035723	0	0.012	0.045351	1144.491	2295.791	0	0.001646	0.012238	0	0.180315	0.361703	0	0.035443	0.263474	0	0	0	0	0.04035	0.299945	0	0	0	0	0.208492	0.127586	7.607785	0	0.010838	0.02174	0
Contra Cos	2024	MHDT	Aggregate	Aggregate	Electricity	15.93893	898.2237	0	898.2237	202.7944	999.2894	0	0	0	0	0	0	0	0.003	0.007938	0	0	0	0.012	0.022679	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	MHDT	Aggregate	Aggregate	Natural Ga	50.69881	2393.487	2393.487	0	464.9776	0	0.130898	6.45054	0	0.001166	0.018223	0	0.003	0.015962	0.001269	0.019819	0	0.012	0.045606	977.4911	5284.91	0	0.73577	17.09966	0	0.199268	1.077363	0	0.010513	0.24432	0	0	0	0	0.750907	17.45146	0	0	0	0	1.06	2.957601	34.98583	0	0	0	0
Contra Cos	2024	OBUS	Aggregate	Aggregate	Gasoline	253.1476	11671.58	11671.58	0	5064.977	0	0.629969	0.065141	0.439941	0.000869	0	0.000257	0.003	0.01568	0.000945	0	0.000279	0.012	0.044799	1775.396	381.7572	32.24343	0.017568	0.193814	0.038064	0.02942	0.005105	0.031661	0.086236	0.747425	0.203755	0.037284	0.175768	3.149089	0.125835	1.090641	0.223086	0.037284	0.175768	3.149089	0.044943	1.91137	5.781664	4.272451	0.017552	0.003774	0.000319
Contra Cos	2024	OBUS	Aggregate	Aggregate	Diesel	129.949	9209.188	9209.188	0	1517.359	0	1.897642	12.59715	1.55653	0.038938	0.014214	0	0.003	0.019948	0.040699	0.014857	0	0.012	0.056993	1414.538	2565.227	0	0.004271	0.039727	0	0.222861	0.404153	0	0.091947	0.855309	0	0	0	0	0.104674	0.973704	0	0	0	0	0.207363	0.272848	13.28475	0	0.013395	0.024291	0
Contra Cos	2024	OBUS	Aggregate	Aggregate	Electricity	0.552957	51.90207	0	51.90207	11.06356	57.49955	0	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	OBUS	Aggregate	Aggregate	Natural Ga	0.998397	52.09485	52.09485	0	8.885737	0	0.244856	1.548989	0	0.0008	0.003623	0	0.003	0.016148	0.00087	0.00394	0	0.012	0.046137	1052.788	1234.271	0	0.759966	4.37981	0	0.214618	0.251614	0	0.010858	0.062579	0	0	0	0	0.775601	4.469918	0	0	0	0	1.06	3.173959	6.730549	0	0	0	0
Contra Cos	2024	SBUS	Aggregate	Aggregate	Gasoline	75.79113	4157.44	4157.44	0	303.1645	0	0.216446	0.92653	0.656721	0.000982	0	0.000664	0.002	0.015721	0.001068	0	0.000723	0.008	0.044917	787.1089	2523.746	54.1204	0.00455	2.525089	0.06294	0.015935	0.093532	0.065609	0.020943	10.64152	0.344026	0.070515	0.154155	0.94249	0.03056	15.52808	0.376665	0.070515	0.154155	0.94249	0.045	0.496031	82.24088	8.698078	0.007781	0.02495	0.000535
Contra Cos	2024	SBUS	Aggregate	Aggregate	Diesel	428.9886	10014.76	10014.76	0	6211.755	0	3.090187	19.00559	0.553303	0.015846	0.013683	0	0.003	0.015721	0.016563	0.014301	0	0.012	0.044917	1136.381	2245.898	0	0.002307	0.007876	0	0.179037	0.353842	0	0.049679	0.169575	0	0	0	0	0.056555	0.193048	0	0	0	0	0.156862	0.158959	5.040882	0	0.010761	0.021267	0
Contra Cos	2024	SBUS	Aggregate	Aggregate	Electricity	1.035742	35.87566	0	35.87566	11.8196	37.79341	0	0	0	0	0	0	0	0.002536	0.00786	0	0	0	0.010145	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	SBUS	Aggregate	Aggregate	Natural Ga	19.56555	483.5367	483.5367	0	283.3091	0	0.612655	5.300433	0	0.003378	0.010653	0	0.003	0.015721	0.003674	0.011586	0	0.012	0.044917	1293.024	4076.993	0	3.561476	15.62134	0	0.263591	0.831122	0	0.050886	0.223198	0	0	0	0	3.634748	15.94273	0	0	0	0	1.06	12.23632	19.15839	0	0	0	0
Contra Cos	2024	UBUS	Aggregate	Aggregate	Gasoline	102.407	5589.009	5589.009	0	409.6278	0	0.149287	0	0.739381	0.001127	0	0.000473	0.002	0.004504	0.035199	0.001226	0	0.000515	0.010015	0.10057	1389.546	0	71.55075	0.002957	0	0.089629	0.014333	0	0.073945	0.009496	0	0.37289	0.045789	0.092592	0.504078	0.013856	0	0.408268	0.045789	0.092592	0.504078	0.045	0.444247	0	7.585271	0.013737	0	0.000707
Contra Cos	2024	UBUS	Aggregate	Aggregate	Diesel	211.7341	21902.93	21902.93	0	846.9363	0	0.355604	0	0	0.006462	0	0	0	0.007718	0.0385	0.006755	0	0	0.030871	0.11	1274.078	0	0	0.003016	0	0	0.200731	0	0	0.064939	0	0	0	0	0.073928	0	0	0	0	0	0.22	0.073139	0	0	0.012073	0	0
Contra Cos	2024	UBUS	Aggregate	Aggregate	Electricity	12.11222	336.0646	0	336.0646	48.44887	585.8427	0	0	0	0	0	0	0	0.005752	0.01925	0	0	0	0.023008	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2024	UBUS	Aggregate	Aggregate	Natural Ga	21.93041	1997.381	1997.381	0	87.72164	0	0.056682	0	0	0.000276	0	0	0	0.007906	0.0385	0.000289	0	0	0.031624	0.11	1276.32	0	0	4.154936	0	0	0.260186	0	0	0.059366	0	0	0	0	4.240417	0	0	0	0	0	0.97	47.45646	0	0	0	0	0

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Contra Costa
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Contra Cos	2025	HHDT	Aggregate	Aggregate	Gasoline	0.726763	63.25338	63.25338	0	14.54108	0	6.72414	0	1.337515	0.0026	0	0.001544	0.005	0.032118	0.002827	0	0.001679	0.02	0.091765	2047.088	0	50.67254	0.160985	0	0.000371	0.19177	0	0.024966	0.928678	0	0.002016	0.12152	1.089314	8.026323	1.355125	0	0.002207	0.12152	1.089314	8.026323	0.043183	46.37703	0	3.275842	0.020238	0	0.000501
Contra Cos	2025	HHDT	Aggregate	Aggregate	Diesel	5216.764	600062.3	6000062.3	0	76369.34	0	1.859455	62.47136	2.907974	0.02583	0.030482	0	0.008788	0.027502	0.026998	0.03186	0	0.035153	0.078576	1607.004	11736.4	0	0.000781	0.235329	0	0.253184	1.849075	0	0.016821	1.066572	0	0	0	0	0.019149	5.767907	0	0	0	0	0.215141	0.080751	73.72026	0	0.015217	0.111137	0
Contra Cos	2025	HHDT	Aggregate	Aggregate	Electricity	37.0133	3826.227	0	3826.227	482.6993	7058.962	0	0	0	0	0	0	0	0.008583	0.01433	0	0	0	0.034334	0.040944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	HHDT	Aggregate	Aggregate	Natural Ga	485.5623	32535.7	32535.7	0	4411.901	0	0.962547	13.13695	0	0.0015102	0.024797	0	0.009	0.048567	0.001633	0.026969	0	0.036	0.138764	1371.254	10546.12	0	2.211649	35.324	0	0.279539	2.149896	0	0.041362	0.522314	0	0	0	0	2.268272	36.07079	0	0	0	0	0.840915	13.22729	73.49978	0	0	0	0
Contra Cos	2025	LDA	Aggregate	Aggregate	Gasoline	335915.8	12781950	12781950	0	1550540	0	0.038743	0	0.257145	0.001137	0	0.001911	0.002	0.002577	0.001237	0	0.002078	0.008	0.007362	274.3952	0	69.76288	0.002109	0	0.070916	0.004468	0	0.033148	0.007906	0	0.32478	0.095	0.248612	1.502154	0.011537	0	0.355593	0.095	0.248612	1.502154	0.035445	68.5005	0	3.210781	0.002713	0	0.00069
Contra Cos	2025	LDA	Aggregate	Aggregate	Diesel	1259.879	36194.27	36194.27	0	5295.122	0	0.181752	0	0	0.013095	0	0	0	0.002	0.002633	0.013688	0	0	0.008	0.007524	233.9729	0	0	0.001054	0	0	0.036863	0	0	0.022691	0	0	0	0	0.025833	0	0	0	0	0	0	0.0031	0.305697	0	0	0.002217	0	0
Contra Cos	2025	LDA	Aggregate	Aggregate	Electricity	22046.53	1056018	0	1056018	108839.1	407710.1	0	0	0	0	0	0	0	0.002	0.001531	0	0	0	0.008	0.004375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	LDA	Aggregate	Aggregate	Plug-in Hyb	9851.001	453993.8	219886.9	234106.9	40733.89	70707.25	0.003111	0	0.116031	0.000564	0	0.001947	0.002	0.001358	0.000613	0	0.002118	0.008	0.003881	132.4386	0	65.03135	0.000416	0	0.042791	0.000563	0	0.020964	0.001317	0	0.174307	0.041933	0.037971	0.440853	0.001921	0	0.190845	0.041933	0.037971	0.440853	0.019111	0.202765	0	1.351845	0.001309	0	0.000643
Contra Cos	2025	LDT1	Aggregate	Aggregate	Gasoline	31581.49	1115653	1115653	0	139008.6	0	0.113591	0	0.390853	0.001609	0	0.002675	0.002	0.003125	0.00175	0	0.002909	0.008	0.008929	327.0518	0	86.69148	0.005456	0	0.107562	0.008737	0	0.03973	0.023834	0	0.550574	0.175626	0.50058	2.791701	0.034779	0	0.602809	0.175626	0.50058	2.791701	0.035911	1.272871	0	5.34637	0.003233	0	0.000857
Contra Cos	2025	LDT1	Aggregate	Aggregate	Diesel	15.05879	179.4426	179.4426	0	42.73851	0	1.556549	0	0	0.217942	0	0	0	0.002	0.003563	0.227796	0	0	0.008	0.010179	415.383	0	0	0.014008	0	0	0.065444	0	0	0.301579	0	0	0	0	0.343327	0	0	0	0	0	0	0.0031	1.876069	0	0	0.003936	0	0
Contra Cos	2025	LDT1	Aggregate	Aggregate	Electricity	90.26785	4001.67	0	4001.67	433.4793	1544.975	0	0	0	0	0	0	0	0.002	0.001534	0	0	0	0.008	0.004384	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	LDT1	Aggregate	Aggregate	Plug-in Hyb	49.92127	2645.408	1148.541	1496.866	206.4245	452.0983	0.002789	0	0.116031	0.000353	0	0.001368	0.002	0.001373	0.000384	0	0.001487	0.008	0.003921	118.7186	0	70.37733	0.000374	0	0.042962	0.000508	0	0.021124	0.00118	0	0.174307	0.024074	0.020407	0.276032	0.001722	0	0.190845	0.024074	0.020407	0.276032	0.018235	0.18176	0	1.351845	0.001174	0	0.000696
Contra Cos	2025	LDT2	Aggregate	Aggregate	Gasoline	158166.8	6456473	6456473	0	736767.7	0	0.059776	0	0.322411	0.001187	0	0.001928	0.002	0.003009	0.001291	0	0.002097	0.008	0.008598	340.1636	0	86.92916	0.002554	0	0.081433	0.005542	0	0.037274	0.009697	0	0.370741	0.083774	0.226343	1.396844	0.014151	0	0.405915	0.083774	0.226343	1.396844	0.03666	0.766186	0	3.574615	0.003363	0	0.000859
Contra Cos	2025	LDT2	Aggregate	Aggregate	Diesel	656.9096	27340.38	27340.38	0	3093.351	0	0.043491	0	0	0.004794	0	0	0	0.002	0.003024	0.005011	0	0	0.008	0.008641	315.3593	0	0	0.000578	0	0	0.049685	0	0	0.012452	0	0	0	0	0.014176	0	0	0	0	0	0	0.0031	0.12928	0	0	0.002988	0	0
Contra Cos	2025	LDT2	Aggregate	Aggregate	Electricity	1078.928	39238.83	0	39238.83	5489.349	15149.43	0	0	0	0	0	0	0	0.002	0.001526	0	0	0	0.008	0.004361	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	LDT2	Aggregate	Aggregate	Plug-in Hyb	1306.174	66002.36	30153.14	35849.22	5401.028	10827.53	0.002935	0	0.116031	0.00044	0	0.001616	0.002	0.001366	0.000479	0	0.001758	0.008	0.003903	124.9217	0	77.22653	0.000393	0	0.042979	0.000535	0	0.02114	0.001242	0	0.174307	0.026312	0.023433	0.304359	0.001812	0	0.190845	0.026312	0.023433	0.304359	0.019158	0.191256	0	1.351845	0.001235	0	0.000763
Contra Cos	2025	LHDT1	Aggregate	Aggregate	Gasoline	12430.74	475719.7	475719.7	0	185199.6	0	0.164561	0.036191	0.641931	0.001481	0	0.000277	0.002	0.0273	0.00161	0	0.000301	0.008	0.078	868.6628	118.9201	25.85241	0.007385	0.113687	0.033241	0.009346	0.003012	0.051703	0.03596	0.414766	0.160513	0.046742	0.258709	2.71959	0.052473	0.605226	0.175742	0.046742	0.258709	2.71959	0.044944	1.047148	3.758307	3.119011	0.008588	0.001176	0.000256
Contra Cos	2025	LHDT1	Aggregate	Aggregate	Diesel	8454.896	323503.4	323503.4	0	106352	0	1.734884	2.023212	0	0.039655	0.026567	0	0.003	0.0273	0.041448	0.027768	0	0.012	0.078	635.3289	132.4519	0	0.008736	0.005098	0	0.100096	0.020868	0	0.188076	0.10976	0	0	0	0	0.214112	0.124954	0	0	0	0	0.167345	0.531534	0.909745	0	0.00602	0.001255	0
Contra Cos	2025	LHDT1	Aggregate	Aggregate	Electricity	99.92339	7064.29	0	7064.29	1397.401	4625.651	0	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	LHDT2	Aggregate	Aggregate	Gasoline	1447.495	54363.71	54363.71	0	21565.52	0	0.151333	0.035398	0.631839	0.001323	0	0.000222	0.002	0.03185	0.001439	0	0.000242	0.008	0.091	976.7171	137.3468	25.43301	0.005628	0.111502	0.031806	0.009215	0.002918	0.050359	0.025972	0.405982	0.155323	0.043635	0.236696	2.572684	0.037898	0.592408	0.170059	0.043635	0.236696	2.572684	0.044982	0.861465	3.766325	3.087837	0.009656	0.001358	0.000251
Contra Cos	2025	LHDT2	Aggregate	Aggregate	Diesel	3354.244	132489.8	132489.8	0	42192.17	0	1.262443	1.936581	0	0.03484	0.026595	0	0.003	0.03185	0.036415	0.027797	0	0.012	0.091	761.8251	210.5375	0	0.007753	0.005098	0	0.120026	0.03317	0	0.166926	0.10976	0	0	0	0	0.190034	0.124954	0	0	0	0	0.182961	0.436701	0.909745	0	0.007219	0.001995	0
Contra Cos	2025	LHDT2	Aggregate	Aggregate	Electricity	25.67366	1724.75	0	1724.75	340.4571	1112.473	0	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	MCY	Aggregate	Aggregate	Gasoline	17964.06	103167.4	103167.4	0	35928.12	0	0.606376	0	0.148458	0.001799	0	0.003309	0.001	0.0042	0.001922	0	0.003517	0.004	0.012	189.6837	0	50.92332	0.173055	0	0.193703	0.041113	0	0.008632	1.151119	0	1.449272	3.595139	3.831331	4.339573	1.375782	0	1.575339	3.595139	3.831331	4.339573	0.008735	13.68942	0	8.268265	0.001875	0	0.000503
Contra Cos	2025	MDV	Aggregate	Aggregate	Gasoline	10109.2	3847980	3847980	0	462776.2	0	0.09936	0	0.43312	0.00121	0	0.00201	0.002	0.00309	0.001316	0	0.002186	0.008	0.008828	417.4308	0	107.3385	0.003786	0	0.103626	0.007661	0	0.041888	0.015662	0	0.512942	0.105746	0.307834	1.834571	0.022851	0	0.561607	0.105746	0.307834	1.834571	0.036067	0.942845	0	4.032117	0.004127	0	0.001061
Contra Cos	2025	MDV	Aggregate	Aggregate	Diesel	1616.562	63183.59	63183.59	0	7522.922	0	0.05911	0	0	0.005558	0	0	0	0.002	0.003116	0.005809	0	0	0.008	0.008902	415.1742	0	0	0.00054	0	0	0.065411	0	0	0.011618	0	0	0	0	0.013226	0	0	0	0	0	0	0.0031	0.206814	0	0	0.003934	0	0
Contra Cos	2025	MDV	Aggregate	Aggregate	Electricity	1153.14	41979.37	0	41979.37	5869.013	16207.5	0	0	0	0	0	0	0	0.002	0.001526	0	0	0	0.008	0.004361	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	MDV	Aggregate	Aggregate	Plug-in Hyb	845.3729	40434.16	18878.17	21555.98	3495.617	6510.549	0.002999	0	0.116031	0.000533	0	0.001918	0.002	0.001364	0.00058	0	0.002086	0.008	0.003897	127.6664	0	95.71511	0.0004	0	0.042805	0.000542	0	0.020978	0.001269	0	0.174307	0.030917	0.026307	0.33558	0.001852	0	0.190845	0.030917	0.026307	0.33558	0.019609	0.195459	0	1.351845	0.001262	0	0.000946
Contra Cos	2025	MH	Aggregate	Aggregate	Gasoline	1677.853	15631.17	15631.17	0	167.8524	0	0.34435	0	0.436731	0.001455	0	0.000346	0.003	0.015756	0.001583	0	0.000376	0.012	0.045017	1946.413	0	31.22196	0.011664	0	0.036823	0.022784	0	0.046912	0.048165	0	0.150984	11.05645	0.25776	4.291934	0.070282	0	0.165309	11.05645	0.25776	4.291934	0.04493	1.051221	0	3.244353	0.019242	0	0.000309
Contra Cos	2025	MH	Aggregate	Aggregate	Diesel	778.3157	7429.293	7429.293	0	77.83157	0	4.279616	0	0	0.100908	0	0	0.004	0.015675	0.105471	0	0	0.016	0.044785	1080.692	0	0	0.005788	0	0	0.170264	0	0	0.124617	0	0	0	0	0	0.141868	0	0	0	0	0	0.147962	0.419202	0	0	0.01024	0	0
Contra Cos	2025	MHDT	Aggregate	Aggregate	Gasoline	731.7882	39165.72	39165.72	0	14641.62	0	0.463999	0.085991	0.443154	0.001365	0	0.000536	0.003	0.015756	0.001485	0	0.000583	0.012	0.045017	1751.742	530.0624	46.30733	0.014862	0.258426	0.048464	0.022743	0.007026	0.03277	0.073846	1.011733	0.270543	0.036541	0.300621	2.953413	0.107756	1.476319	0.296211	0.036541	0.300621	2.953413	0.044986	1.539419	15.10502	5.927203	0.017318	0.00524	0.000458
Contra Cos	2025	MHDT	Aggregate	Aggregate	Diesel	5595.422	232124.9	232124.9	0	64604.61	0	1.214993	13.4591	1.663002	0.013648	0.028116	0	0.003	0.015873	0.014265	0.029387	0	0.012	0.045351	1138.538	2275.085	0	0.001424	0.011487	0	0.179377	0.35844	0	0.030668	0.247316	0	0	0	0	0.034914	0.281551	0	0	0	0	0.210107	0.115076	7.586818	0	0.010781	0.021544	0
Contra Cos	2025	MHDT	Aggregate	Aggregate	Electricity	48.08819	2656.929	0	2656.929	606.944	2924.601	0	0	0	0	0	0	0	0.003	0.00793	0	0	0	0.012	0.022657	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	MHDT	Aggregate	Aggregate	Natural Ga	55.40225	2558.295	2558.295	0	509.9158	0	0.121566	6.421413	0	0.001216	0.018742	0	0.003	0.015965	0.001322	0.020384	0	0.012	0.045615	972.0574	5288.024	0	0.742674	16.80379	0	0.19816	1.077998	0	0.010611	0.240093	0	0	0	0	0.757953	17.1495	0	0	0	0	1.06	2.956275	36.16306	0	0	0	0
Contra Cos	2025	OBUS	Aggregate	Aggregate	Gasoline	244.7271	11139.07	11139.07	0	4896.501	0	0.586449	0.064162	0.43641	0.000909	0	0.000263	0.003	0.01568	0.000989	0	0.000286	0.012	0.044799	1755.298	379.5355	32.01597	0.01631	0.193926	0.0375	0.027537	0.005036	0.031462	0.080045	0.747462	0.200778	0.0376	0.182853	3.267475	0.116802	1.090695	0.219827	0.0376	0.182853	3.267475	0.044942	1.762769	5.781888	4.229353	0.017353	0.003752	0.000317
Contra Cos	2025	OBUS	Aggregate	Aggregate	Diesel	135.9959	9269.808	9269.808	0	1588.796	0	1.850306	12.0647	1.546118	0.037676	0.012916	0	0.003	0.019949	0.03938	0.0135	0	0.012	0.056997	1401.028	2530.586	0	0.00418	0.039626	0	0.220733	0.398695	0	0.089984	0.853144	0	0	0	0	0.10244	0.97124	0	0	0	0	0.207498	0.266886	13.30447	0	0.013267	0.023963	0
Contra Cos	2025	OBUS	Aggregate	Aggregate	Electricity	1.359437	125.5876	0	125.5876	27.19961	139.1318	0	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	OBUS	Aggregate	Aggregate	Natural Ga	1.145249	56.92923	56.92923	0	10.19272	0	0.22151	1.538003	0	0.000912	0.003885	0	0.003	0.016148	0.000992	0.004225	0	0.012	0.046137	1035.495	1224.879	0	0.772758	4.244165	0	0.211092	0.2497	0	0.011041	0.060641	0	0	0	0	0.788656	4.331482	0	0	0	0	1.06	3.208421	7.321396	0	0	0	0
Contra Cos	2025	SBUS	Aggregate	Aggregate	Gasoline	79.00692	4347.724	4347.724	0	316.0277	0	0.216313	0.902881	0.661006	0.00099	0	0.000671	0.002	0.015721	0.001077	0	0.000729	0.008	0.044917	783.4347	2512.864	53.827	0.004406	2.526695	0.063086	0.015896	0.091077	0.065928	0.020247	10.64152	0.344692	0.075875	0.176165	1.065117	0.029545	15.52808	0.377394	0.075875	0.176165	1.065117	0.045	0.479583	82.24088	8.626186	0.007745	0.024842	0.000532
Contra Cos	2025	SBUS	Aggregate	Aggregate	Diesel	432.811	9986.146	9986.146	0	6267.104	0	2.987256	18.67851	0.560008	0.015429	0.01306	0	0.003	0.015721	0.016126	0.01365	0	0.012	0.044917	1133.5	2237.608	0	0.002283	0.007864	0	0.178583	0.352536	0	0.04916	0.169318	0	0	0	0	0.055965	0.192756	0	0	0	0	0.159251	0.158248	5.102403	0	0.010734	0.021189	0
Contra Cos	2025	SBUS	Aggregate	Aggregate	Electricity	2.263673	79.45481	0	79.45481	25.8381	83.70211	0	0	0	0	0	0	0.002541	0.00786	0	0	0	0.010165	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	SBUS	Aggregate	Aggregate	Natural Ga	20.01499	488.374	488.374	0	289.817	0	0.59952	5.292773	0	0.003378	0.010835	0	0.003	0.015721	0.003674	0.011785	0	0.012	0.044917	1286.206	4081.46	0	3.525288	15.52677	0	0.262202	0.832032	0	0.050369	0.221847	0	0	0	0	3.597815	15.84621	0	0	0	0	1.06	12.06603	19.57035	0	0	0	0
Contra Cos	2025	UBUS	Aggregate	Aggregate	Gasoline	102.7093	5605.508	5605.508	0	410.8371	0	0.158149	0	0.759744	0.001128	0	0.000473	0.002	0.004	0.035199	0.001226	0	0.000515	0.010015	0.10057	1389.421	0	71.551	0.002942	0	0.092414	0.014952	0	0.074889	0.009477	0	0.385671	0.049896	0.103699	0.564118	0.013829	0	0.422261	0.049896	0.103699	0.564118	0.045	0.455604	0	7.561036	0.013736	0	0.000707
Contra Cos	2025	UBUS	Aggregate	Aggregate	Diesel	212.2508	21953.89	21953.89	0	849.0034	0	0.355603	0	0	0.006462	0	0	0.007718	0.0385	0.006755	0	0	0.030871	0.11	1273.782	0	0	0.003016	0	0	0.200685	0	0	0.064939	0	0	0	0	0	0.073928	0	0	0	0	0	0.22	0.073138	0	0	0.01207	0	0
Contra Cos	2025	UBUS	Aggregate	Aggregate	Electricity	12.11222	336.0646	0	336.0646	48.44887	585.8427	0	0	0	0	0	0	0.005752	0.01925	0	0	0	0.023008	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2025	UBUS	Aggregate	Aggregate	Natural Ga	22.13921	2017.972	2017.972	0	88.55685	0	0.056666	0	0	0.000276	0	0	0.007904	0.0385	0.000288	0	0	0.031616	0.11	1276.152	0	0	4.154264	0	0	0.260152	0	0	0.059356	0	0	0	0	0	4.239731	0	0	0	0	0	0	0	0	0	0	0

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Contra Costa
Calendar Year: 2030
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Cor	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNI	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
Contra Cos	2030	HHDT	Aggregate	Aggregate	Gasoline	0.592934	98.03355	98.03355	0	11.86343	0	2.781839	0	0.002468	0.001531	0	0.000578	0.005	0.032234	0.001665	0	0.000628	0.02	0.092097	1907.371	0	47.82597	0.087899	0	0.000289	0.118042	0	0.000163	0.407194	0	0.001566	0.035536	0.316203	2.247188	0.594176	0	0.001714	0.035536	0.316203	2.247188	0.045	26.2369	0	5.705746	0.018856	0	0.000473
Contra Cos	2030	HHDT	Aggregate	Aggregate	Diesel	5550.319	609871.1	609871.1	0	81555.31	0	1.585998	61.1426	2.878165	0.025062	0.024995	0	0.008802	0.028228	0.026195	0.026125	0	0.033209	0.080661	1474.421	10731.08	0	0.000664	0.233952	0	0.232296	1.690686	0	0.014288	5.036924	0	0	0	0	0.016266	5.734155	0	0	0	0	0.216984	0.063416	73.84791	0	0.013962	0.101617	0
Contra Cos	2030	HHDT	Aggregate	Aggregate	Electricity	311.1422	31681.21	0	31681.21	3898.393	58465.07	0	0	0	0	0	0	0.008575	0.015629	0	0	0	0.034299	0.044655	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	HHDT	Aggregate	Aggregate	Natural Ga	548.366	33832.28	33832.28	0	4849.832	0	0.683354	11.52964	0	0.001454	0.026978	0	0.009	0.051789	0.001581	0.029341	0	0.036	0.147969	1321.217	10252.62	0	1.703442	30.25307	0	0.269339	2.090064	0	0.029863	0.441428	0	0	0	0	1.744781	30.88593	0	0	0	0	0.810375	11.30894	75.4483	0	0	0	0
Contra Cos	2030	LDA	Aggregate	Aggregate	Gasoline	333255.2	12895800	12895800	0	1533864	0	0.02729	0	0.21332	0.000878	0	0.00156	0.002	0.002573	0.000955	0	0.001697	0.008	0.007352	253.3305	0	63.62814	0.001452	0	0.054354	0.00372	0	0.029682	0.005	0	0.238298	0.076865	0.221168	1.336043	0.007297	0	0.260906	0.076865	0.221168	1.336043	0.039182	0.551253	0	2.513394	0.002504	0	0.000629
Contra Cos	2030	LDA	Aggregate	Aggregate	Diesel	715.3612	20778.69	20778.69	0	3055.121	0	0.091609	0	0	0.006361	0	0	0	0.002651	0.006649	0	0	0.008	0.007574	222.1918	0	0	0.000624	0	0	0.035006	0	0	0.014336	0	0	0	0	0	0.015296	0	0	0	0	0	0.0031	0.242652	0	0	0.002105	0	0
Contra Cos	2030	LDA	Aggregate	Aggregate	Electricity	32020.11	1458818	0	1458818	154883.5	563224.3	0	0	0	0	0	0	0.002	0.001535	0	0	0	0.008	0.004385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	LDA	Aggregate	Aggregate	Plug-in HyE	1295.142	564698.9	251582.3	313116.6	53554.14	94570.55	0.002862	0	0.116031	0.000389	0	0.001508	0.002	0.001377	0.000423	0	0.001641	0.008	0.003933	121.8309	0	62.03628	0.000376	0	0.042054	0.000501	0	0.020276	0.001211	0	0.174307	0.041315	0.050659	0.51611	0.001767	0	0.190845	0.041315	0.050659	0.51611	0.018224	0.186553	0	1.351845	0.001204	0	0.000613
Contra Cos	2030	LDT1	Aggregate	Aggregate	Gasoline	27525.38	984324.1	984324.1	0	120953.4	0	0.066731	0	0.301607	0.00119	0	0.002064	0.002	0.003119	0.001294	0	0.002245	0.008	0.008911	304.155	0	78.78985	0.003272	0	0.079265	0.006056	0	0.034939	0.01358	0	0.384486	0.14067	0.415089	2.393436	0.019816	0	0.420964	0.14067	0.415089	2.393436	0.037965	0.890501	0	3.83885	0.003007	0	0.000779
Contra Cos	2030	LDT1	Aggregate	Aggregate	Diesel	1.355208	20.76697	20.76697	0	4.077487	0	1.017633	0	0	0.11698	0	0	0	0.002003364	0.122269	0	0	0.008	0.009612	403.7389	0	0	0.008875	0	0	0.063609	0	0	0.191064	0	0	0	0	0	0.217513	0	0	0	0	0	0.0031	1.476463	0	0	0.003826	0	0
Contra Cos	2030	LDT1	Aggregate	Aggregate	Electricity	214.06	10290.09	0	10290.09	1050.971	3972.825	0	0	0	0	0	0	0.002	0.001531	0	0	0	0.008	0.004375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	LDT1	Aggregate	Aggregate	Plug-in HyE	159.174	8056.115	3331.527	4724.589	658.1844	1426.967	0.002657	0	0.116031	0.000237	0	0.000982	0.002	0.001384	0.000258	0	0.001068	0.008	0.003954	113.0868	0	67.72056	0.000352	0	0.042457	0.000473	0	0.020652	0.001124	0	0.174307	0.023231	0.020067	0.275898	0.00164	0	0.190845	0.023231	0.020067	0.275898	0.017369	0.173164	0	1.351845	0.001118	0	0.000669
Contra Cos	2030	LDT2	Aggregate	Aggregate	Gasoline	166906.7	6812636	6812636	0	773330.5	0	0.040049	0	0.261327	0.000927	0	0.001585	0.002	0.003021	0.001008	0	0.001724	0.008	0.008631	314.2774	0	79.48653	0.001879	0	0.064634	0.004459	0	0.033768	0.006655	0	0.282106	0.069769	0.204878	1.257389	0.009711	0	0.308871	0.069769	0.204878	1.257389	0.039619	0.633611	0	2.892914	0.003107	0	0.000786
Contra Cos	2030	LDT2	Aggregate	Aggregate	Diesel	670.9399	27320.38	27320.38	0	3118.373	0	0.032	0	0	0.004116	0	0	0	0.003044	0.004302	0	0	0.008	0.008696	294.3364	0	0	0.000541	0	0	0.046373	0	0	0.011641	0	0	0	0	0	0.013253	0	0	0	0	0	0.0031	0.12444	0	0	0.002789	0	0
Contra Cos	2030	LDT2	Aggregate	Aggregate	Electricity	2766.702	95303.84	0	95303.84	13771.55	36795.15	0	0	0	0	0	0	0.002	0.001531	0	0	0	0.008	0.004374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	LDT2	Aggregate	Aggregate	Plug-in HyE	2472.68	117466.3	50256.06	67210.2	10224.53	20299.48	0.002748	0	0.116031	0.000302	0	0.001206	0.002	0.001381	0.000328	0	0.001312	0.008	0.003947	116.9957	0	74.28977	0.000363	0	0.042305	0.000486	0	0.02051	0.001163	0	0.174307	0.026967	0.02613	0.321663	0.001697	0	0.190845	0.026967	0.02613	0.321663	0.01796	0.179149	0	1.351845	0.001157	0	0.000734
Contra Cos	2030	LHDT1	Aggregate	Aggregate	Gasoline	11808.94	454705.8	454705.8	0	175935.5	0	0.097487	0.032001	0.551097	0.001354	0	0.000208	0.002	0.0273	0.001473	0	0.000226	0.008	0.078	814.959	114.7231	25.39822	0.004278	0.103228	0.027573	0.005724	0.002855	0.047308	0.019467	0.366935	0.131584	0.037379	0.219881	2.309334	0.028406	0.535431	0.144068	0.037379	0.219881	2.309334	0.045	0.809242	3.765791	3.217488	0.008057	0.001134	0.000251
Contra Cos	2030	LHDT1	Aggregate	Aggregate	Diesel	8017.329	303654	303654	0	100847.9	0	1.094952	1.689921	0	0.030102	0.0262	0	0.003	0.0273	0.031463	0.027384	0	0.012	0.078	625.8055	127.0384	0	0.006741	0.005098	0	0.098596	0.020015	0	0.145134	0.10976	0	0	0	0	0.165225	0.124954	0	0	0	0	0.18952	0.396703	0.909745	0	0.00593	0.001204	0
Contra Cos	2030	LHDT1	Aggregate	Aggregate	Electricity	1059.661	65548.18	0	65548.18	14844.63	42939.65	0	0	0	0	0	0	0.002	0.01365	0	0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	LHDT2	Aggregate	Aggregate	Gasoline	1369.289	51634.06	51634.06	0	20400.37	0	0.08235	0.030725	0.542985	0.001185	0	0.000152	0.002	0.03185	0.001289	0	0.000165	0.008	0.091	920.0102	132.7237	24.62049	0.002843	0.099415	0.026318	0.005556	0.002705	0.045757	0.01177	0.352665	0.124112	0.034443	0.201566	2.239426	0.017175	0.514608	0.135887	0.034443	0.201566	2.239426	0.045	0.658333	3.775547	3.13687	0.009095	0.001312	0.000243
Contra Cos	2030	LHDT2	Aggregate	Aggregate	Diesel	3444.892	131547.7	131547.7	0	43332.41	0	0.878631	1.619653	0	0.028705	0.026728	0	0.003	0.03185	0.030003	0.027936	0	0.012	0.091	739.5239	202.4841	0	0.006433	0.005098	0	0.116512	0.031901	0	0.13849	0.10976	0	0	0	0	0.157661	0.124954	0	0	0	0	0.197923	0.361295	0.909745	0	0.007007	0.001919	0
Contra Cos	2030	LHDT2	Aggregate	Aggregate	Electricity	267.3691	15828.5	0	15828.5	3545.704	10209.95	0	0	0	0	0	0	0.002	0.015925	0	0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	MCY	Aggregate	Aggregate	Gasoline	17810.29	102622.5	102622.5	0	35620.58	0	0.543222	0	0.120393	0.001845	0	0.003167	0.001	0.0042	0.001975	0	0.003379	0.004	0.012	187.1794	0	46.10225	0.152999	0	0.171769	0.038433	0	0.007191	0.975931	0	1.260607	3.593625	3.868698	4.216616	1.185932	0	1.370939	3.593625	3.868698	4.216616	0.008925	11.88386	0	8.104801	0.00185	0	0.000456
Contra Cos	2030	MDV	Aggregate	Aggregate	Gasoline	101432.1	3907256	3907256	0	463218.1	0	0.059259	0	0.317631	0.000943	0	0.001636	0.002	0.003086	0.001026	0	0.00178	0.008	0.008816	385.0433	0	97.97895	0.002497	0	0.076628	0.005498	0	0.036305	0.009652	0	0.357695	0.086864	0.267113	1.611071	0.014084	0	0.391631	0.086864	0.267113	1.611071	0.038944	0.728939	0	3.172324	0.003807	0	0.000969
Contra Cos	2030	MDV	Aggregate	Aggregate	Diesel	1494.7	55524.33	55524.33	0	6801.512	0	0.034604	0	0	0.00361	0	0	0.002	0.00317	0.003773	0	0	0.008	0.009057	392.5235	0	0	0.000404	0	0	0.061842	0	0	0.008694	0	0	0	0	0	0.009898	0	0	0	0	0	0.0031	0.186426	0	0	0.003719	0	0
Contra Cos	2030	MDV	Aggregate	Aggregate	Electricity	2760.866	94565.67	0	94565.67	13718.55	36510.15	0	0	0	0	0	0	0.002	0.001532	0	0	0	0.008	0.004377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	MDV	Aggregate	Aggregate	Plug-in HyE	1557.997	71217.48	30635.73	40581.75	6442.318	12256.9	0.002763	0	0.116031	0.000332	0	0.00133	0.002	0.001381	0.000361	0	0.001446	0.008	0.003947	117.6349	0	91.01587	0.000363	0	0.04213	0.000485	0	0.020347	0.001169	0	0.174307	0.02989	0.030602	0.358411	0.001706	0	0.190845	0.02989	0.030602	0.358411	0.018067	0.180128	0	1.351845	0.001163	0	0.0009
Contra Cos	2030	MH	Aggregate	Aggregate	Gasoline	1368.274	13511.66	13511.66	0	136.8822	0	0.218251	0	0.478789	0.001313	0	0.00031	0.003	0.015756	0.001428	0	0.000337	0.012	0.045017	1945.294	0	30.64031	0.006882	0	0.035213	0.017446	0	0.053042	0.024399	0	0.137271	8.2311	0.199221	3.453963	0.035603	0	0.150295	8.2311	0.199221	3.453963	0.045	0.410637	0	2.9068	0.019231	0	0.000303
Contra Cos	2030	MH	Aggregate	Aggregate	Diesel	767.7373	7222.074	7222.074	0	76.77373	0	3.75908	0	0	0.079915	0	0	0.004	0.015675	0.083529	0	0	0.016	0.044785	1082.622	0	0	0.005345	0	0	0.170568	0	0	0.115071	0	0	0	0	0	0.131	0	0	0	0	0	0.16706	0.377852	0	0	0.010258	0	0
Contra Cos	2030	MHDT	Aggregate	Aggregate	Gasoline	687.7624	39226.82	39226.82	0	13760.75	0	0.204247	0.074094	0.361134	0.001343	0	0.000472	0.003	0.015756	0.00146	0	0.000513	0.012	0.045017	1662.564	506.0624	42.40438	0.006892	0.270964	0.042257	0.012477	0.006614	0.030288	0.031525	1.02147	0.220174	0.024004	0.206532	2.094264	0.046001	1.490526	0.241063	0.024004	0.206532	2.094264	0.045	0.602399	15.21811	4.669167	0.016436	0.005003	0.000419
Contra Cos	2030	MHDT	Aggregate	Aggregate	Diesel	5684.068	222142.4	222142.4	0	65775.55	0	0.773416	11.90918	1.564248	0.007037	0.010741	0	0.003	0.015872	0.007355	0.011227	0	0.012	0.04535	1106.935	2179.126	0	0.000734	0.009369	0	0.174398	0.343322	0	0.015796	0.201721	0	0	0	0	0.017982	0.229644	0	0	0	0	0.215324	0.07464	7.56946	0	0.010482	0.020635	0
Contra Cos	2030	MHDT	Aggregate	Aggregate	Electricity	528.836	28323.01	0	28323.01	6642.972	30929.37	0	0	0	0	0	0	0.003	0.007925	0	0	0	0.012	0.022643	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	MHDT	Aggregate	Aggregate	Natural Ga	76.83759	3248.902	3248.902	0	727.5314	0	0.093737	6.274657	0	0.001354	0.020031	0	0.003	0.01596	0.001473	0.021785	0	0.012	0.045601	951.7304	5240.519	0	0.756664	15.79584	0	0.194016	1.068314	0	0.010811	0.225691	0	0	0	0	0.772231	16.12081	0	0	0	0	1.06	2.94175	39.14627	0	0	0	0
Contra Cos	2030	OBUS	Aggregate	Aggregate	Gasoline	205.9348	8870.419	8870.419	0	4120.344	0	0.374235	0.058254	0.414027	0.001038	0	0.000265	0.003	0.01568	0.001129	0	0.000288	0.012	0.044799	1666.231	369.0236	30.73398	0.009921	0.194474	0.035426	0.01852	0.004577	0.029647	0.047237	0.74876	0.189296	0.037433	0.209258	3.756038	0.068928	1.092589	0.207255	0.037433	0.209258	3.756038	0.045	1.030338	5.789646	3.890926	0.016472	0.003648	0.000304
Contra Cos	2030	OBUS	Aggregate	Aggregate	Diesel	158.2212	9585.81	9585.81	0	1847.668	0	1.707753	9.911477	1.399815	0.034883	0.010481	0	0.003	0.020322	0.03646	0.010955	0	0.012	0.058063	1330.199	2388.167	0	0.003914	0.039258	0	0.209573	0.376257	0	0.084277	0.845211	0	0	0	0	0.095942	0.962208	0	0	0	0	0.208417	0.249919	13.29862	0	0.012596	0.022615	0
Contra Cos	2030	OBUS	Aggregate	Aggregate	Electricity	11.99132	1066.507	0	1066.507	239.9224	1181.527	0	0	0	0	0	0	0.003	0.00784	0	0	0	0.012	0.022399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	OBUS	Aggregate	Aggregate	Natural Ga	1.698751	77.71889	77.71889	0	15.11889	0	0.151727	1.510236	0	0.001245	0.004547	0	0.003	0.016148	0.001354	0.004946	0	0.012	0.046137	974.3562	1191.903	0	0.810992	3.901335	0	0.198629	0.242977	0	0.011587	0.055742	0	0	0	0	0.827677	3.981598	0	0	0	0	1.06	3.31143	8.81471	0	0	0	0
Contra Cos	2030	SBUS	Aggregate	Aggregate	Gasoline	91.44368	5097.797	5097.797	0	365.7747	0	0.201312	0.818167	0.700946	0.001022	0	0.000693	0.002	0.015721	0.001111	0	0.000754	0.008	0.044917	769.8396	2472.604	52.91942	0.003866	2.531952	0.065055	0.015411	0.081696	0.068074	0.017567	10.64152	0.353801	0.092321	0.261655	1.533365	0.025634	15.52808	0.387368	0.092321	0.261655	1.533365	0.045	0.417391	82.24088	8.458233	0.007611	0.024444	0.000523
Contra Cos	2030	SBUS	Aggregate	Aggregate	Diesel	435.82	9545.934	9545.934	0	6310.674	0	2.315579	16.25128	0.592129	0.012893	0.009299	0	0.003	0.015721	0.013476	0.009719	0	0.012	0.044917	1117.504	2187.25	0	0.002015	0.007901	0	0.176063	0.344602	0	0.043382	0.170106	0	0	0	0	0.049387	0.193653	0	0	0	0	0.173605	0.145537	5.530085	0	0.010582	0.020712	0
Contra Cos	2030	SBUS	Aggregate	Aggregate	Electricity	23.19598	792.5426	0	792.5426	274.6657	834.9085	0	0	0	0	0	0	0.002589	0.00786	0	0	0	0.010357	0.022459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	SBUS	Aggregate	Aggregate	Natural Ga	22.17915	504.6717	504.6717	0	321.154	0	0.539804	5.259875	0	0.003378	0.01162	0	0.003	0.015721	0.003674	0.012638	0	0.012	0.044917	1255.188	4100.575	0	3.360775	15.12059	0	0.255878	0.835929	0	0.048019	0.216043	0	0	0	0	3.429917	15.43167	0	0	0	0	1.06	11.29184	21.33958	0	0	0	0
Contra Cos	2030	UBUS	Aggregate	Aggregate	Gasoline	93.90447	4979.043	4979.043	0	375.6179	0	0.079299	0	0.497717	0.001222	0	0.000441	0.002433	0.03473	0.001329	0	0.00048	0.009732	0.099227	1272.317	0	64.9227	0.002516	0	0.05869	0.008908	0	0.057843	0.007749	0	0.234398	0.0241	0.090896	0.317817	0.011307	0	0.256636	0.0241	0.090896	0.317817	0.045	0.4344	0	7.909048	0.012578	0	0.000642
Contra Cos	2030	UBUS	Aggregate	Aggregate	Diesel	152.1131	15476.15	15476.15	0	608.4525	0	0.341937	0	0	0.006213	0	0	0.007458	0.0385	0.006494	0	0	0.029833	0.11	1184.043	0	0	0.002928	0	0	0.186547	0	0	0.063036	0	0	0	0	0	0.071761	0	0	0	0	0	0.22	0.070361	0	0	0.011219	0	0
Contra Cos	2030	UBUS	Aggregate	Aggregate	Electricity	70.93313	6034.227	0	6034.227	283.7325	10519.13	0	0	0	0	0	0	0.00769	0.01925	0	0	0	0.03076	0.055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Cos	2030	UBUS	Aggregate	Aggregate	Natural Ga	37.40027	3864.256	3864.256	0	149.6011	0	0.056334	0	0	0.000275	0	0	0.007861	0.0385	0.000287	0	0	0.031442	0.11	1272.507	0	0	4.139806	0	0	0.259409	0	0	0.05915	0	0	0	0	0	4.224976	0	0	0	0	0	0.97	47.19366	0	0	0	0	0

Attachment 4: Project Construction Emissions and Health Risk Calculations

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA

Year	Unmitigated DPM	DPM EMFAC2021	Unmitigated Emissions	Unmitigated Fug PM2.5	Fug PM2.5 EMFAC2021	Unmitigated Emissions
2022	0.0068	0.0004	0.0072	0.0071	0.0004	0.0075
2023	0.0055	0.0011	0.0066	0.0000	0.0013	0.0013
2024	0.0025	0.0007	0.0033	0.0000	0.0009	0.0009

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA

DPM Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	(lb/hr)	(g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2022	Construction	0.0072	CON_DPM	14.4	0.00438	5.52E-04	23467	2.35E-08
2023	Construction	0.0066	CON_DPM	13.2	0.00403	5.08E-04	23467	2.16E-08
2024	Construction	0.0033	CON_DPM	6.5	0.00198	2.50E-04	23467	1.06E-08
Total		***0.0171***		***34.2***	***0.0104***	***0.0013***		

Construction Hours

hr/day =	9	(7am - 4pm)
days/yr =	365	
hours/year =	3285	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA

PM2.5 Fugitive Dust Emissions for Modeling - Unmitigated

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	(lb/yr)	(lb/hr)	(g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2022	Construction	CON_FUG	0.0075	15.0	0.00456	5.75E-04	23,467	2.45E-08
2023	Construction	CON_FUG	0.0013	2.7	0.00082	1.03E-04	23,467	4.38E-09
2024	Construction	CON_FUG	0.0009	1.8	0.00056	7.04E-05	23,467	3.00E-09
Total			***0.0098***	***19.5***	***0.0059***	***0.0007***		

Construction Hours

hr/day =	9	(7am - 4pm)
days/yr =	365	
hours/year =	3285	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Construction Health Impact Summary

Maximum Impacts at MEI Residential Location - Without Mitigation

Emissions Year	Maximum Concentrations Exhaust PM10/DPM ($\mu g/m^3$)	Maximum Concentrations Fugitive PM2.5 ($\mu g/m^3$)	Cancer Risk (per million) Infant/Child	Cancer Risk (per million) Adult	Hazard Index (-)	Maximum Annual PM2.5 Concentration ($\mu g/m^3$)
2022	0.0048	0.0061	0.86	0.01	0.001	0.01
2023	0.0045	0.0011	0.73	0.01	0.001	0.01
2024	0.0022	0.0008	0.06	0.01	0.0004	0.003
Total	-	-	**1.65**	**0.03**	-	-
Maximum	0.0048	0.0061	**-**	**-**	**0.001**	**0.01**

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 1.5 meter receptor height

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant/Child			Adult
Age -->	**3rd Trimester**	**0 - 2**	**2 - 16**	**16 - 30**
Parameter				
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

			Infant/Child - Exposure Information			Infant/Child	Adult - Exposure Information			Adult			
							Modeled					Maximum	
			DPM Conc (ug/m3)		Age	Cancer	DPM Conc (ug/m3)		Age	Cancer	Hazard	Fugitive	Total
Exposure Year	Exposure Duration (years)	Age	Year	Annual	Sensitivity Factor	Risk (per million)	Year	Annual	Sensitivity Factor	Risk (per million)	Index	PM2.5	PM2.5
0	0.25	-0.25 - 0*	2022	0.0048	10	0.07	2022	0.0048	-	-			
1	1	0 - 1	2022	0.0048	10	0.79	2022	0.0048	1	0.01	0.001	0.01	0.01
2	1	1 - 2	2023	0.0045	10	0.73	2023	0.0045	1	0.01	0.001	0.001	0.01
3	1	2 - 3	2024	0.0022	3	0.06	2024	0.0022	1	0.01	0.0004	0.001	0.003
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00			
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00			
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00			
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00			
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00			
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00			
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00			
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00			
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00			
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00			
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00			
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00			
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00			
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00			
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00			
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00			
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00			
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00			
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00			
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00			
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00			
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00			
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00			
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00			
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00			
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00			
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00			
Total Increased Cancer Risk						**1.65**				**0.03**			

* Third trimester of pregnancy

Attachment 5: Community Risk Modeling Information and Calculations

CT-EMFAC2017 Emissions Factors for I-80 - 2022

File Name:	I-80 - 1500 Fitzgerald Dr - Contra Costa (SF) - 2022 - Annual.EF
CT-EMFAC2017 Version:	1.0.2.27401
Run Date:	10/14/2021 14:48
Area:	Contra Costa (SF)
Analysis Year:	2022
Season:	Annual

==========

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.031	0.511	0.489
Truck 2	0.029	0.937	0.048
Non-Truck	0.94	0.014	0.97

==========

Road Type:	Major/Collector		
Silt Loading Factor:	CARB	0.015 g/m2	
Precipitation Correction:	CARB	P = 60 days	N = 365 days

==========

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph
PM2.5	0.011391	0.007707	0.005348	0.003896	0.003039	0.002522	0.002221	0.002074	0.002049	0.002127	0.002305	0.00255	0.002862	0.002988
TOG	0.239737	0.158704	0.105244	0.073336	0.055201	0.043854	0.036526	0.031914	0.029283	0.028249	0.028675	0.03069	0.034551	0.037341
Diesel PM	0.002872	0.002375	0.001809	0.001418	0.00121	0.001101	0.001057	0.001069	0.001134	0.00125	0.001416	0.001583	0.001739	0.001739

==========

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.587206

==========

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002163

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Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.017255

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Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.008272

==========END==========

I-80 Traffic Emissions and Health Risk Calculations

Analysis Year = ***2022***

Vehicle Type	2020 Caltrans Vehicles (veh/day)	2022 Vehicles (veh/day)
Truck 1 (MDT)	5,143	5,246
Truck 2 (HDT)	4,909	5,007
Non-Truck	156,947	160,086
Total	**166,999**	**170,339**

Increase From 2020	1.02
Vehicles/Direction	**85,169**
Avg Vehicles/Hour/Direction	3,549

Traffic Data Year = ***2020***

Caltrans Truck AADT		Total	Trucks by Axle			
	AADT Total	Truck	2	3	4	5
O, Pinole, Appian Way	167,000	10,053	5,143	635	247	4,027
			51.16%	6.32%	2.46%	40.06%
Percent of Total Vehicles		6.02%	3.08%	0.38%	0.15%	2.41%

Traffic Increase per Year (%) = *1.00%*

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - I-80
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
DPM_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	67.7	3.4	Varied	85,169
DPM_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	67.7	3.4	Varied	85,169
									Total	170,339

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle (g/VMT)	0.00174	0.00106		

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and DPM Emissions - DPM_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1308	2.59E-04	9	4.33%	3686	4.44E-04	17	7.27%	6194	7.47E-04
2	0.95%	813	1.61E-04	10	4.46%	3801	7.54E-04	18	6.99%	5952	7.18E-04
3	0.75%	640	1.27E-04	11	5.00%	4262	8.46E-04	19	6.44%	5481	1.09E-03
4	0.67%	568	1.13E-04	12	5.59%	4757	9.44E-04	20	5.47%	4662	9.25E-04
5	0.96%	820	1.63E-04	13	6.26%	5333	1.06E-03	21	4.50%	3835	7.61E-04
6	1.74%	1478	2.93E-04	14	6.76%	5757	1.14E-03	22	3.53%	3010	5.97E-04
7	2.73%	2326	4.61E-04	15	7.65%	6513	1.29E-03	23	2.81%	2390	4.74E-04
8	3.81%	3242	3.91E-04	16	7.60%	6472	1.28E-03	24	2.19%	1868	3.71E-04
								Total		85,169	

2022 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	827	1.59E-04	9	5.37%	4576	5.35E-04	17	5.49%	4678	5.47E-04
2	0.74%	632	1.22E-04	10	5.43%	4624	8.89E-04	18	5.45%	4644	5.43E-04
3	0.73%	621	1.19E-04	11	5.67%	4830	9.29E-04	19	4.77%	4061	7.81E-04
4	1.19%	1010	1.94E-04	12	5.72%	4873	9.37E-04	20	4.18%	3559	6.84E-04
5	3.26%	2779	5.34E-04	13	5.79%	4933	9.49E-04	21	3.62%	3087	5.93E-04
6	5.88%	5005	9.62E-04	14	5.85%	4980	9.58E-04	22	3.15%	2687	5.17E-04
7	5.76%	4909	9.44E-04	15	5.76%	4907	9.44E-04	23	2.48%	2109	4.05E-04
8	5.60%	4767	5.57E-04	16	5.54%	4721	9.08E-04	24	1.59%	1351	2.60E-04
								Total		85,169	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - I-80
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
PM25_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	85,169
PM25_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	85,169
									Total	170,339

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle (g/VMT)	0.002862	0.002221		

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and PM2.5 Emissions - PM25_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1308	4.27E-04	9	4.33%	3686	9.34E-04	17	7.27%	6194	1.57E-03
2	0.95%	813	2.65E-04	10	4.46%	3801	1.24E-03	18	6.99%	5952	1.51E-03
3	0.75%	640	2.09E-04	11	5.00%	4262	1.39E-03	19	6.44%	5481	1.79E-03
4	0.67%	568	1.85E-04	12	5.59%	4757	1.55E-03	20	5.47%	4662	1.52E-03
5	0.96%	820	2.68E-04	13	6.26%	5333	1.74E-03	21	4.50%	3835	1.25E-03
6	1.74%	1478	4.83E-04	14	6.76%	5757	1.88E-03	22	3.53%	3010	9.83E-04
7	2.73%	2326	7.59E-04	15	7.65%	6513	2.13E-03	23	2.81%	2390	7.80E-04
8	3.81%	3242	8.21E-04	16	7.60%	6472	2.11E-03	24	2.19%	1868	6.10E-04
								Total		85,169	

2022 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	827	2.62E-04	9	5.37%	4576	1.12E-03	17	5.49%	4678	1.15E-03
2	0.74%	632	2.00E-04	10	5.43%	4624	1.46E-03	18	5.45%	4644	1.14E-03
3	0.73%	621	1.97E-04	11	5.67%	4830	1.53E-03	19	4.77%	4061	1.29E-03
4	1.19%	1010	3.20E-04	12	5.72%	4873	1.54E-03	20	4.18%	3559	1.13E-03
5	3.26%	2779	8.79E-04	13	5.79%	4933	1.56E-03	21	3.62%	3087	9.77E-04
6	5.88%	5005	1.58E-03	14	5.85%	4980	1.58E-03	22	3.15%	2687	8.50E-04
7	5.76%	4909	1.55E-03	15	5.76%	4907	1.55E-03	23	2.48%	2109	6.67E-04
8	5.60%	4767	1.17E-03	16	5.54%	4721	1.49E-03	24	1.59%	1351	4.27E-04
								Total		85,169	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - I-80
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEXH_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	85,169
TEXH_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	85,169
									Total	170,339

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle (g/VMT)	0.03455	0.03653		

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1308	5.16E-03	9	4.33%	3686	1.54E-02	17	7.27%	6194	2.58E-02
2	0.95%	813	3.20E-03	10	4.46%	3801	1.50E-02	18	6.99%	5952	2.48E-02
3	0.75%	640	2.52E-03	11	5.00%	4262	1.68E-02	19	6.44%	5481	2.16E-02
4	0.67%	568	2.24E-03	12	5.59%	4757	1.88E-02	20	5.47%	4662	1.84E-02
5	0.96%	820	3.23E-03	13	6.26%	5333	2.10E-02	21	4.50%	3835	1.51E-02
6	1.74%	1478	5.83E-03	14	6.76%	5757	2.27E-02	22	3.53%	3010	1.19E-02
7	2.73%	2326	9.17E-03	15	7.65%	6513	2.57E-02	23	2.81%	2390	9.42E-03
8	3.81%	3242	1.35E-02	16	7.60%	6472	2.55E-02	24	2.19%	1868	7.36E-03
								Total		85,169	

2022 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	827	3.16E-03	9	5.37%	4576	1.85E-02	17	5.49%	4678	1.89E-02
2	0.74%	632	2.42E-03	10	5.43%	4624	1.77E-02	18	5.45%	4644	1.88E-02
3	0.73%	621	2.37E-03	11	5.67%	4830	1.85E-02	19	4.77%	4061	1.55E-02
4	1.19%	1010	3.86E-03	12	5.72%	4873	1.86E-02	20	4.18%	3559	1.36E-02
5	3.26%	2779	1.06E-02	13	5.79%	4933	1.88E-02	21	3.62%	3087	1.18E-02
6	5.88%	5005	1.91E-02	14	5.85%	4980	1.90E-02	22	3.15%	2687	1.03E-02
7	5.76%	4909	1.88E-02	15	5.76%	4907	1.87E-02	23	2.48%	2109	8.06E-03
8	5.60%	4767	1.93E-02	16	5.54%	4721	1.80E-02	24	1.59%	1351	5.16E-03
								Total		85,169	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - I-80
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEVAP_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	85,169
TEVAP_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	85,169
									Total	170,339

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle per Hour (g/hour)	1.58721	1.58721		
Emissions per Vehicle per Mile (g/VMT)	0.02442	0.04535		

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1308	3.64E-03	9	4.33%	3686	1.91E-02	17	7.27%	6194	3.20E-02
2	0.95%	813	2.26E-03	10	4.46%	3801	1.06E-02	18	6.99%	5952	3.08E-02
3	0.75%	640	1.78E-03	11	5.00%	4262	1.19E-02	19	6.44%	5481	1.53E-02
4	0.67%	568	1.58E-03	12	5.59%	4757	1.33E-02	20	5.47%	4662	1.30E-02
5	0.96%	820	2.29E-03	13	6.26%	5333	1.49E-02	21	4.50%	3835	1.07E-02
6	1.74%	1478	4.12E-03	14	6.76%	5757	1.60E-02	22	3.53%	3010	8.39E-03
7	2.73%	2326	6.48E-03	15	7.65%	6513	1.81E-02	23	2.81%	2390	6.66E-03
8	3.81%	3242	1.68E-02	16	7.60%	6472	1.80E-02	24	2.19%	1868	5.20E-03
								Total		85,169	

2022 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	827	2.23E-03	9	5.37%	4576	2.29E-02	17	5.49%	4678	2.35E-02
2	0.74%	632	1.71E-03	10	5.43%	4624	1.25E-02	18	5.45%	4644	2.33E-02
3	0.73%	621	1.68E-03	11	5.67%	4830	1.30E-02	19	4.77%	4061	1.10E-02
4	1.19%	1010	2.73E-03	12	5.72%	4873	1.32E-02	20	4.18%	3559	9.61E-03
5	3.26%	2779	7.50E-03	13	5.79%	4933	1.33E-02	21	3.62%	3087	8.33E-03
6	5.88%	5005	1.35E-02	14	5.85%	4980	1.34E-02	22	3.15%	2687	7.25E-03
7	5.76%	4909	1.33E-02	15	5.76%	4907	1.32E-02	23	2.48%	2109	5.69E-03
8	5.60%	4767	2.39E-02	16	5.54%	4721	1.27E-02	24	1.59%	1351	3.65E-03
								Total		85,169	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - I-80
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
FUG_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	85,169
FUG_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	85,169
									Total	170,339

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Tire Wear - Emissions per Vehicle (g/VMT)	0.00216	0.00216		
Brake Wear - Emissions per Vehicle (g/VMT)	0.01726	0.01726		
Road Dust - Emissions per Vehicle (g/VMT)	0.00827	0.00827		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02769	0.02769		

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1308	4.13E-03	9	4.33%	3686	1.16E-02	17	7.27%	6194	1.96E-02
2	0.95%	813	2.57E-03	10	4.46%	3801	1.20E-02	18	6.99%	5952	1.88E-02
3	0.75%	640	2.02E-03	11	5.00%	4262	1.35E-02	19	6.44%	5481	1.73E-02
4	0.67%	568	1.79E-03	12	5.59%	4757	1.50E-02	20	5.47%	4662	1.47E-02
5	0.96%	820	2.59E-03	13	6.26%	5333	1.68E-02	21	4.50%	3835	1.21E-02
6	1.74%	1478	4.67E-03	14	6.76%	5757	1.82E-02	22	3.53%	3010	9.51E-03
7	2.73%	2326	7.35E-03	15	7.65%	6513	2.06E-02	23	2.81%	2390	7.55E-03
8	3.81%	3242	1.02E-02	16	7.60%	6472	2.04E-02	24	2.19%	1868	5.90E-03
								Total		85,169	

2022 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	827	2.53E-03	9	5.37%	4576	1.40E-02	17	5.49%	4678	1.43E-02
2	0.74%	632	1.94E-03	10	5.43%	4624	1.42E-02	18	5.45%	4644	1.42E-02
3	0.73%	621	1.90E-03	11	5.67%	4830	1.48E-02	19	4.77%	4061	1.24E-02
4	1.19%	1010	3.09E-03	12	5.72%	4873	1.49E-02	20	4.18%	3559	1.09E-02
5	3.26%	2779	8.51E-03	13	5.79%	4933	1.51E-02	21	3.62%	3087	9.45E-03
6	5.88%	5005	1.53E-02	14	5.85%	4980	1.52E-02	22	3.15%	2687	8.23E-03
7	5.76%	4909	1.50E-02	15	5.76%	4907	1.50E-02	23	2.48%	2109	6.46E-03
8	5.60%	4767	1.46E-02	16	5.54%	4721	1.45E-02	24	1.59%	1351	4.14E-03
								Total		85,169	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - I-80 Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
at Construction MEI Receptor (1.5m receptor height)

Emission Year	2022
Receptor Information	Construction MEI receptor
Number of Receptors	1
Receptor Height	1.5 meters
Receptor Distances	At Construction MEI location

Meteorological Conditions	
BAQMD Phillips Hillcrest Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

Construction MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0041	0.1008	0.0815

Construction MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0878	0.0799	0.0079

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - I-80 Cancer Risk & PM2.5 Impacts at Construction MEI - 1.5 meter receptor height
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2022	10	0.0041	0.1008	0.0815	0.056	0.008	0.0004	0.06
1	1	0 - 1	2022	10	0.0041	0.1008	0.0815	0.672	0.095	0.0045	0.77
2	1	1 - 2	2023	10	0.0041	0.1008	0.0815	0.672	0.095	0.0045	0.77
3	1	2 - 3	2024	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
4	1	3 - 4	2025	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
5	1	4 - 5	2026	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
6	1	5 - 6	2027	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
7	1	6 - 7	2028	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
8	1	7 - 8	2029	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
9	1	8 - 9	2030	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
10	1	9 - 10	2031	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
11	1	10 - 11	2032	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
12	1	11 - 12	2033	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
13	1	12 - 13	2034	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
14	1	13 - 14	2035	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
15	1	14 - 15	2036	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
16	1	15 - 16	2037	3	0.0041	0.1008	0.0815	0.106	0.015	0.0007	0.12
17	1	16-17	2038	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
18	1	17-18	2039	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
19	1	18-19	2040	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
20	1	19-20	2041	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
21	1	20-21	2042	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
22	1	21-22	2043	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
23	1	22-23	2044	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
24	1	23-24	2045	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
25	1	24-25	2046	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
26	1	25-26	2047	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
27	1	26-27	2048	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
28	1	27-28	2049	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
29	1	28-29	2050	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
30	1	29-30	2051	1	0.0041	0.1008	0.0815	0.012	0.002	0.0001	0.01
Total Increased Cancer Risk								3.04	0.428	0.020	**3.49**

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.08	0.09

* Third trimester of pregnancy

CT-EMFAC2017 Emissions Factors for Fitzgerald Drive - 2022

File Name:	Fitzgerald - 1500 Fitzgerald Dr - Contra Costa (SF) - 2022 - Annual.EF
CT-EMFAC2017 Version:	1.0.2.27401
Run Date:	10/14/2021 14:51
Area:	Contra Costa (SF)
Analysis Year:	2022
Season:	Annual

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Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.017	0.511	0.489
Truck 2	0.019	0.937	0.048
Non-Truck	0.964	0.014	0.97

==========

Road Type:	Major/Collector	
Silt Loading Factor:	CARB	0.032 g/m2
Precipitation Correction:	CARB	P = 60 days N = 365 days

==========

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph
PM2.5	0.010606	0.007045	0.004834	0.003486	0.002684	0.002196	0.001904	0.001751
TOG	0.229321	0.150647	0.100701	0.070812	0.05337	0.042417	0.035381	0.03098
Diesel PM	0.001887	0.001582	0.001203	0.000941	0.000804	0.000732	0.000703	0.000711

==========

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.560691

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Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002106

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Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.016807

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Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.015084

==========END==========

Fitzgerald Drive Traffic Emissions and Health Risk Calculations

Analysis Year = ***2022***

Vehicle Type	2021 Caltrans Vehicles (veh/day)	2022 Vehicles (veh/day)
Truck 1 (MDT)	428	433
Truck 2 (HDT)	115	116
Non-Truck	14,596	14,742
Total	**15,140**	**15,291**

Increase From 2021	1.01
Vehicles/Direction	**7,646**
Avg Vehicles/Hour/Direction	319

Traffic Data Year = ***2021***

Project Traffic Report Provided ADT	AADT Total	Total Truck
Fitzgerald Drive & Project Driveway	15,140	544
	Percent of Total Vehicles	3.59%

Traffic Increase per Year (%) = *1.00%*

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
DPM_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	43.7	3.4	30	7,646
DPM_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	43.7	3.4	30	7,646
									Total	15,291

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.00073			

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and DPM Emissions - DPM_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.55%	271	2.62E-05	9	7.44%	569	5.48E-05	17	6.41%	490	4.72E-05
2	2.43%	186	1.79E-05	10	6.58%	503	4.85E-05	18	4.72%	361	3.48E-05
3	2.99%	229	2.20E-05	11	5.74%	439	4.23E-05	19	2.37%	181	1.75E-05
4	3.09%	236	2.28E-05	12	6.02%	460	4.44E-05	20	1.06%	81	7.81E-06
5	2.06%	158	1.52E-05	13	5.46%	417	4.02E-05	21	2.73%	209	2.01E-05
6	2.90%	222	2.14E-05	14	5.55%	424	4.09E-05	22	3.57%	273	2.63E-05
7	6.66%	509	4.91E-05	15	4.54%	347	3.35E-05	23	2.26%	173	1.67E-05
8	5.85%	447	4.31E-05	16	5.10%	390	3.76E-05	24	0.95%	73	7.00E-06
								Total		7,648	

2022 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.55%	271	2.61E-05	9	7.44%	569	5.48E-05	17	6.41%	490	4.72E-05
2	2.43%	186	1.79E-05	10	6.58%	503	4.84E-05	18	4.72%	361	3.47E-05
3	2.99%	229	2.20E-05	11	5.74%	439	4.23E-05	19	2.37%	181	1.74E-05
4	3.09%	236	2.27E-05	12	6.02%	460	4.43E-05	20	1.06%	81	7.80E-06
5	2.06%	158	1.52E-05	13	5.46%	417	4.02E-05	21	2.73%	209	2.01E-05
6	2.90%	222	2.13E-05	14	5.55%	424	4.09E-05	22	3.57%	273	2.63E-05
7	6.66%	509	4.90E-05	15	4.54%	347	3.34E-05	23	2.26%	173	1.66E-05
8	5.85%	447	4.31E-05	16	5.10%	390	3.75E-05	24	0.95%	73	6.99E-06
								Total		7,648	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
PM25_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,646
PM25_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,646
									Total	15,291

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.002196			

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and PM2.5 Emissions - PM25_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	87	2.52E-05	9	7.15%	547	1.58E-04	17	7.44%	569	1.64E-04
2	0.42%	32	9.29E-06	10	4.36%	333	9.64E-05	18	8.22%	628	1.82E-04
3	0.43%	33	9.51E-06	11	4.65%	356	1.03E-04	19	5.68%	434	1.26E-04
4	0.26%	20	5.75E-06	12	5.86%	448	1.30E-04	20	4.26%	326	9.42E-05
5	0.50%	38	1.11E-05	13	6.12%	468	1.35E-04	21	3.24%	248	7.16E-05
6	0.90%	69	1.99E-05	14	6.01%	460	1.33E-04	22	3.28%	251	7.25E-05
7	3.81%	291	8.42E-05	15	6.98%	534	1.54E-04	23	2.45%	187	5.42E-05
8	7.79%	596	1.72E-04	16	7.18%	549	1.59E-04	24	1.87%	143	4.13E-05
								Total		7,646	

2022 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	87	2.52E-05	9	7.15%	547	1.58E-04	17	7.44%	569	1.64E-04
2	0.42%	32	9.28E-06	10	4.36%	333	9.63E-05	18	8.22%	628	1.82E-04
3	0.43%	33	9.50E-06	11	4.65%	356	1.03E-04	19	5.68%	434	1.25E-04
4	0.26%	20	5.74E-06	12	5.86%	448	1.29E-04	20	4.26%	326	9.41E-05
5	0.50%	38	1.10E-05	13	6.12%	468	1.35E-04	21	3.24%	248	7.16E-05
6	0.90%	69	1.99E-05	14	6.01%	460	1.33E-04	22	3.28%	251	7.24E-05
7	3.81%	291	8.41E-05	15	6.98%	534	1.54E-04	23	2.45%	187	5.41E-05
8	7.79%	596	1.72E-04	16	7.18%	549	1.59E-04	24	1.87%	143	4.13E-05
								Total		7,646	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEXH_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,646
TEXH_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,646
									Total	15,291

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.04242			

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	87	4.87E-04	9	7.15%	547	3.05E-03	17	7.44%	569	3.18E-03
2	0.42%	32	1.79E-04	10	4.36%	333	1.86E-03	18	8.22%	628	3.51E-03
3	0.43%	33	1.84E-04	11	4.65%	356	1.99E-03	19	5.68%	434	2.43E-03
4	0.26%	20	1.11E-04	12	5.86%	448	2.50E-03	20	4.26%	326	1.82E-03
5	0.50%	38	2.14E-04	13	6.12%	468	2.61E-03	21	3.24%	248	1.38E-03
6	0.90%	69	3.84E-04	14	6.01%	460	2.57E-03	22	3.28%	251	1.40E-03
7	3.81%	291	1.63E-03	15	6.98%	534	2.98E-03	23	2.45%	187	1.05E-03
8	7.79%	596	3.33E-03	16	7.18%	549	3.07E-03	24	1.87%	143	7.99E-04
								Total		7,646	

2022 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	87	4.86E-04	9	7.15%	547	3.05E-03	17	7.44%	569	3.17E-03
2	0.42%	32	1.79E-04	10	4.36%	333	1.86E-03	18	8.22%	628	3.51E-03
3	0.43%	33	1.83E-04	11	4.65%	356	1.98E-03	19	5.68%	434	2.42E-03
4	0.26%	20	1.11E-04	12	5.86%	448	2.50E-03	20	4.26%	326	1.82E-03
5	0.50%	38	2.13E-04	13	6.12%	468	2.61E-03	21	3.24%	248	1.38E-03
6	0.90%	69	3.84E-04	14	6.01%	460	2.56E-03	22	3.28%	251	1.40E-03
7	3.81%	291	1.63E-03	15	6.98%	534	2.98E-03	23	2.45%	187	1.05E-03
8	7.79%	596	3.32E-03	16	7.18%	549	3.06E-03	24	1.87%	143	7.98E-04
								Total		7,646	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEVAP_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,646
TEVAP_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,646
									Total	15,291

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle per Hour (g/hour)	1.56069			
Emissions per Vehicle per Mile (g/VMT)	0.05202			

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	87	5.97E-04	9	7.15%	547	3.74E-03	17	7.44%	569	3.90E-03
2	0.42%	32	2.20E-04	10	4.36%	333	2.28E-03	18	8.22%	628	4.31E-03
3	0.43%	33	2.25E-04	11	4.65%	356	2.44E-03	19	5.68%	434	2.97E-03
4	0.26%	20	1.36E-04	12	5.86%	448	3.07E-03	20	4.26%	326	2.23E-03
5	0.50%	38	2.62E-04	13	6.12%	468	3.21E-03	21	3.24%	248	1.70E-03
6	0.90%	69	4.71E-04	14	6.01%	460	3.15E-03	22	3.28%	251	1.72E-03
7	3.81%	291	2.00E-03	15	6.98%	534	3.66E-03	23	2.45%	187	1.28E-03
8	7.79%	596	4.08E-03	16	7.18%	549	3.76E-03	24	1.87%	143	9.79E-04
								Total		7,646	

2022 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	87	5.96E-04	9	7.15%	547	3.74E-03	17	7.44%	569	3.89E-03
2	0.42%	32	2.20E-04	10	4.36%	333	2.28E-03	18	8.22%	628	4.30E-03
3	0.43%	33	2.25E-04	11	4.65%	356	2.43E-03	19	5.68%	434	2.97E-03
4	0.26%	20	1.36E-04	12	5.86%	448	3.07E-03	20	4.26%	326	2.23E-03
5	0.50%	38	2.62E-04	13	6.12%	468	3.20E-03	21	3.24%	248	1.70E-03
6	0.90%	69	4.71E-04	14	6.01%	460	3.14E-03	22	3.28%	251	1.72E-03
7	3.81%	291	1.99E-03	15	6.98%	534	3.65E-03	23	2.45%	187	1.28E-03
8	7.79%	596	4.08E-03	16	7.18%	549	3.76E-03	24	1.87%	143	9.78E-04
								Total		7,646	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Offsite Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2022

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
FUG_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,646
FUG_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,646
									Total	15,291

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00211			
Brake Wear - Emissions per Vehicle (g/VMT)	0.01681			
Road Dust - Emissions per Vehicle (g/VMT)	0.01508			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03400			

Emisson Factors from CT-EMFAC2017

2022 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	87	3.90E-04	9	7.15%	547	2.45E-03	17	7.44%	569	2.55E-03
2	0.42%	32	1.44E-04	10	4.36%	333	1.49E-03	18	8.22%	628	2.81E-03
3	0.43%	33	1.47E-04	11	4.65%	356	1.59E-03	19	5.68%	434	1.94E-03
4	0.26%	20	8.90E-05	12	5.86%	448	2.01E-03	20	4.26%	326	1.46E-03
5	0.50%	38	1.71E-04	13	6.12%	468	2.09E-03	21	3.24%	248	1.11E-03
6	0.90%	69	3.08E-04	14	6.01%	460	2.06E-03	22	3.28%	251	1.12E-03
7	3.81%	291	1.30E-03	15	6.98%	534	2.39E-03	23	2.45%	187	8.39E-04
8	7.79%	596	2.67E-03	16	7.18%	549	2.46E-03	24	1.87%	143	6.40E-04
								Total		7,646	

2022 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	87	3.90E-04	9	7.15%	547	2.44E-03	17	7.44%	569	2.54E-03
2	0.42%	32	1.44E-04	10	4.36%	333	1.49E-03	18	8.22%	628	2.81E-03
3	0.43%	33	1.47E-04	11	4.65%	356	1.59E-03	19	5.68%	434	1.94E-03
4	0.26%	20	8.89E-05	12	5.86%	448	2.00E-03	20	4.26%	326	1.46E-03
5	0.50%	38	1.71E-04	13	6.12%	468	2.09E-03	21	3.24%	248	1.11E-03
6	0.90%	69	3.08E-04	14	6.01%	460	2.05E-03	22	3.28%	251	1.12E-03
7	3.81%	291	1.30E-03	15	6.98%	534	2.39E-03	23	2.45%	187	8.38E-04
8	7.79%	596	2.66E-03	16	7.18%	549	2.45E-03	24	1.87%	143	6.39E-04
								Total		7,646	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Fitzgerald Drive Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
at Construction MEI Receptor (1.5m receptor height)

Emission Year	2022
Receptor Information	Construction MEI receptor
Number of Receptors	1
Receptor Height	1.5 meters
Receptor Distances	At Construction MEI location

Meteorological Conditions	
BAQMD Phillips Hillcrest Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

Construction MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0005	0.0259	0.0317

Construction MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0221	0.0208	0.0013

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Fitzgerald Drive Cancer Risk & PM2.5
Impacts at Construction MEI - 1.5 meter receptor height
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2022	10	0.0005	0.0259	0.0317	0.007	0.002	0.0001	0.01
1	1	0 - 1	2022	10	0.0005	0.0259	0.0317	0.080	0.024	0.0018	0.11
2	1	1 - 2	2023	10	0.0005	0.0259	0.0317	0.080	0.024	0.0018	0.11
3	1	2 - 3	2024	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
4	1	3 - 4	2025	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
5	1	4 - 5	2026	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
6	1	5 - 6	2027	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
7	1	6 - 7	2028	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
8	1	7 - 8	2029	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
9	1	8 - 9	2030	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
10	1	9 - 10	2031	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
11	1	10 - 11	2032	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
12	1	11 - 12	2033	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
13	1	12 - 13	2034	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
14	1	13 - 14	2035	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
15	1	14 - 15	2036	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
16	1	15 - 16	2037	3	0.0005	0.0259	0.0317	0.013	0.004	0.0003	0.02
17	1	16-17	2038	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
18	1	17-18	2039	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
19	1	18-19	2040	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
20	1	19-20	2041	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
21	1	20-21	2042	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
22	1	21-22	2043	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
23	1	22-23	2044	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
24	1	23-24	2045	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
25	1	24-25	2046	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
26	1	25-26	2047	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
27	1	26-27	2048	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
28	1	27-28	2049	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
29	1	28-29	2050	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
30	1	29-30	2051	1	0.0005	0.0259	0.0317	0.001	0.000	0.0000	0.00
Total Increased Cancer Risk								0.36	0.110	0.008	**0.48**

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.0001	0.02	0.02

* Third trimester of pregnancy

CT-EMFAC2017 Emissions Factors for I-80 - 2025

File Name:	I-80 - 1500 Fitzgerald Dr - Contra Costa (SF) - 2025 - Annual.EF
CT-EMFAC2017 Version:	1.0.2.27401
Run Date:	10/14/2021 14:49
Area:	Contra Costa (SF)
Analysis Year:	2025
Season:	Annual

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Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.031	0.524	0.476
Truck 2	0.029	0.932	0.051
Non-Truck	0.94	0.015	0.959

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Road Type:	Major/Collector	
Silt Loading Factor:	CARB	0.015 g/m2
Precipitation Correction:	CARB	P = 60 days N = 365 days

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Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph
PM2.5	0.009013	0.005924	0.004067	0.002942	0.002257	0.001844	0.001606	0.00149	0.001468	0.001525	0.001655	0.001863	0.002158	0.002265
TOG	0.183897	0.120999	0.080445	0.056236	0.042355	0.03372	0.028192	0.024746	0.022811	0.022091	0.022486	0.024103	0.027182	0.029435
Diesel PM	0.001435	0.00117	0.00091	0.000731	0.000624	0.000572	0.000562	0.000588	0.000645	0.000734	0.000853	0.000994	0.001156	0.001156

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Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.405525

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Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002165

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Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.01732

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Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.008229

==========END==========

I-80 Traffic Emissions and Health Risk Calculations

Analysis Year = ***2025***

Vehicle Type	2020 Caltrans Vehicles (veh/day)	2025 Vehicles (veh/day)
Truck 1 (MDT)	5,143	5,400
Truck 2 (HDT)	4,909	5,154
Non-Truck	156,947	164,794
Total	**166,999**	**175,349**

Increase From 2020	1.05
Vehicles/Direction	**87,674**
Avg Vehicles/Hour/Direction	3,653

Traffic Data Year = ***2020***

Caltrans Truck AADT		Total	Trucks by Axle			
	AADT Total	Truck	2	3	4	5
O, Pinole, Appian Way	167,000	10,053	5,143	635	247	4,027
			51.16%	6.32%	2.46%	40.06%
Percent of Total Vehicles		6.02%	3.08%	0.38%	0.15%	2.41%

Traffic Increase per Year (%) = *1.00%*

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - I-80
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
DPM_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	67.7	3.4	Varied	87,674
DPM_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	67.7	3.4	Varied	87,674
									Total	175,349

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle (g/VMT)	0.00116	0.00056		

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and DPM Emissions - DPM_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1346	1.78E-04	9	4.33%	3795	2.43E-04	17	7.27%	6377	4.09E-04
2	0.95%	837	1.10E-04	10	4.46%	3913	5.16E-04	18	6.99%	6127	3.93E-04
3	0.75%	659	8.69E-05	11	5.00%	4388	5.79E-04	19	6.44%	5642	7.44E-04
4	0.67%	585	7.71E-05	12	5.59%	4897	6.46E-04	20	5.47%	4799	6.33E-04
5	0.96%	844	1.11E-04	13	6.26%	5489	7.24E-04	21	4.50%	3948	5.21E-04
6	1.74%	1522	2.01E-04	14	6.76%	5926	7.81E-04	22	3.53%	3099	4.09E-04
7	2.73%	2395	3.16E-04	15	7.65%	6704	8.84E-04	23	2.81%	2460	3.24E-04
8	3.81%	3338	2.14E-04	16	7.60%	6662	8.79E-04	24	2.19%	1923	2.54E-04
								Total		87,674	

2025 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	851	1.09E-04	9	5.37%	4710	2.93E-04	17	5.49%	4816	2.99E-04
2	0.74%	651	8.32E-05	10	5.43%	4760	6.08E-04	18	5.45%	4781	2.97E-04
3	0.73%	639	8.17E-05	11	5.67%	4972	6.35E-04	19	4.77%	4181	5.34E-04
4	1.19%	1040	1.33E-04	12	5.72%	5016	6.41E-04	20	4.18%	3664	4.68E-04
5	3.26%	2861	3.66E-04	13	5.79%	5078	6.49E-04	21	3.62%	3177	4.06E-04
6	5.88%	5152	6.59E-04	14	5.85%	5126	6.55E-04	22	3.15%	2766	3.54E-04
7	5.76%	5054	6.46E-04	15	5.76%	5051	6.46E-04	23	2.48%	2171	2.77E-04
8	5.60%	4907	3.05E-04	16	5.54%	4860	6.21E-04	24	1.59%	1390	1.78E-04
								Total		87,674	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - I-80
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
PM25_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	87,674
PM25_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	87,674
									Total	175,349

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle (g/VMT)	0.002158	0.001606		

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and PM2.5 Emissions - PM25_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1346	3.31E-04	9	4.33%	3795	6.95E-04	17	7.27%	6377	1.17E-03
2	0.95%	837	2.06E-04	10	4.46%	3913	9.63E-04	18	6.99%	6127	1.12E-03
3	0.75%	659	1.62E-04	11	5.00%	4388	1.08E-03	19	6.44%	5642	1.39E-03
4	0.67%	585	1.44E-04	12	5.59%	4897	1.21E-03	20	5.47%	4799	1.18E-03
5	0.96%	844	2.08E-04	13	6.26%	5489	1.35E-03	21	4.50%	3948	9.72E-04
6	1.74%	1522	3.75E-04	14	6.76%	5926	1.46E-03	22	3.53%	3099	7.63E-04
7	2.73%	2395	5.89E-04	15	7.65%	6704	1.65E-03	23	2.81%	2460	6.06E-04
8	3.81%	3338	6.11E-04	16	7.60%	6662	1.64E-03	24	2.19%	1923	4.73E-04
								Total		87,674	

2025 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	851	2.03E-04	9	5.37%	4710	8.36E-04	17	5.49%	4816	8.55E-04
2	0.74%	651	1.55E-04	10	5.43%	4760	1.14E-03	18	5.45%	4781	8.49E-04
3	0.73%	639	1.53E-04	11	5.67%	4972	1.19E-03	19	4.77%	4181	9.98E-04
4	1.19%	1040	2.48E-04	12	5.72%	5016	1.20E-03	20	4.18%	3664	8.74E-04
5	3.26%	2861	6.83E-04	13	5.79%	5078	1.21E-03	21	3.62%	3177	7.58E-04
6	5.88%	5152	1.23E-03	14	5.85%	5126	1.22E-03	22	3.15%	2766	6.60E-04
7	5.76%	5054	1.21E-03	15	5.76%	5051	1.21E-03	23	2.48%	2171	5.18E-04
8	5.60%	4907	8.71E-04	16	5.54%	4860	1.16E-03	24	1.59%	1390	3.32E-04
								Total		87,674	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - I-80
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEXH_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	87,674
TEXH_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	87,674
									Total	175,349

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle (g/VMT)	0.02718	0.02819		

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1346	4.17E-03	9	4.33%	3795	1.22E-02	17	7.27%	6377	2.05E-02
2	0.95%	837	2.59E-03	10	4.46%	3913	1.21E-02	18	6.99%	6127	1.97E-02
3	0.75%	659	2.04E-03	11	5.00%	4388	1.36E-02	19	6.44%	5642	1.75E-02
4	0.67%	585	1.81E-03	12	5.59%	4897	1.52E-02	20	5.47%	4799	1.49E-02
5	0.96%	844	2.62E-03	13	6.26%	5489	1.70E-02	21	4.50%	3948	1.22E-02
6	1.74%	1522	4.72E-03	14	6.76%	5926	1.84E-02	22	3.53%	3099	9.61E-03
7	2.73%	2395	7.43E-03	15	7.65%	6704	2.08E-02	23	2.81%	2460	7.63E-03
8	3.81%	3338	1.07E-02	16	7.60%	6662	2.07E-02	24	2.19%	1923	5.96E-03
								Total		87,674	

2025 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	851	2.56E-03	9	5.37%	4710	1.47E-02	17	5.49%	4816	1.50E-02
2	0.74%	651	1.96E-03	10	5.43%	4760	1.43E-02	18	5.45%	4781	1.49E-02
3	0.73%	639	1.92E-03	11	5.67%	4972	1.49E-02	19	4.77%	4181	1.26E-02
4	1.19%	1040	3.13E-03	12	5.72%	5016	1.51E-02	20	4.18%	3664	1.10E-02
5	3.26%	2861	8.60E-03	13	5.79%	5078	1.53E-02	21	3.62%	3177	9.55E-03
6	5.88%	5152	1.55E-02	14	5.85%	5126	1.54E-02	22	3.15%	2766	8.31E-03
7	5.76%	5054	1.52E-02	15	5.76%	5051	1.52E-02	23	2.48%	2171	6.52E-03
8	5.60%	4907	1.53E-02	16	5.54%	4860	1.46E-02	24	1.59%	1390	4.18E-03
								Total		87,674	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - I-80
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEVAP_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	87,674
TEVAP_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	87,674
									Total	175,349

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Emissions per Vehicle per Hour (g/hour)	1.40553	1.40553		
Emissions per Vehicle per Mile (g/VMT)	0.02162	0.04016		

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1346	3.32E-03	9	4.33%	3795	1.74E-02	17	7.27%	6377	2.92E-02
2	0.95%	837	2.06E-03	10	4.46%	3913	9.65E-03	18	6.99%	6127	2.81E-02
3	0.75%	659	1.63E-03	11	5.00%	4388	1.08E-02	19	6.44%	5642	1.39E-02
4	0.67%	585	1.44E-03	12	5.59%	4897	1.21E-02	20	5.47%	4799	1.18E-02
5	0.96%	844	2.08E-03	13	6.26%	5489	1.35E-02	21	4.50%	3948	9.74E-03
6	1.74%	1522	3.75E-03	14	6.76%	5926	1.46E-02	22	3.53%	3099	7.64E-03
7	2.73%	2395	5.91E-03	15	7.65%	6704	1.65E-02	23	2.81%	2460	6.07E-03
8	3.81%	3338	1.53E-02	16	7.60%	6662	1.64E-02	24	2.19%	1923	4.74E-03
								Total		87,674	

2025 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	851	2.04E-03	9	5.37%	4710	2.09E-02	17	5.49%	4816	2.14E-02
2	0.74%	651	1.56E-03	10	5.43%	4760	1.14E-02	18	5.45%	4781	2.12E-02
3	0.73%	639	1.53E-03	11	5.67%	4972	1.19E-02	19	4.77%	4181	1.00E-02
4	1.19%	1040	2.49E-03	12	5.72%	5016	1.20E-02	20	4.18%	3664	8.76E-03
5	3.26%	2861	6.84E-03	13	5.79%	5078	1.21E-02	21	3.62%	3177	7.60E-03
6	5.88%	5152	1.23E-02	14	5.85%	5126	1.23E-02	22	3.15%	2766	6.61E-03
7	5.76%	5054	1.21E-02	15	5.76%	5051	1.21E-02	23	2.48%	2171	5.19E-03
8	5.60%	4907	2.18E-02	16	5.54%	4860	1.16E-02	24	1.59%	1390	3.32E-03
								Total		87,674	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - I-80
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
FUG_EB_I80	I-80 Eastbound	EB	4	660.9	0.41	20.6	68	1.3	Varied	87,674
FUG_WB_I80	I-80 Westbound	WB	4	640.6	0.40	20.6	68	1.3	Varied	87,674
									Total	175,349

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	65	35		
Tire Wear - Emissions per Vehicle (g/VMT)	0.00217	0.00217		
Brake Wear - Emissions per Vehicle (g/VMT)	0.01732	0.01732		
Road Dust - Emissions per Vehicle (g/VMT)	0.00823	0.00823		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02771	0.02771		

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_EB_I80

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.54%	1346	4.26E-03	9	4.33%	3795	1.20E-02	17	7.27%	6377	2.02E-02
2	0.95%	837	2.64E-03	10	4.46%	3913	1.24E-02	18	6.99%	6127	1.94E-02
3	0.75%	659	2.08E-03	11	5.00%	4388	1.39E-02	19	6.44%	5642	1.78E-02
4	0.67%	585	1.85E-03	12	5.59%	4897	1.55E-02	20	5.47%	4799	1.52E-02
5	0.96%	844	2.67E-03	13	6.26%	5489	1.74E-02	21	4.50%	3948	1.25E-02
6	1.74%	1522	4.81E-03	14	6.76%	5926	1.87E-02	22	3.53%	3099	9.80E-03
7	2.73%	2395	7.57E-03	15	7.65%	6704	2.12E-02	23	2.81%	2460	7.78E-03
8	3.81%	3338	1.06E-02	16	7.60%	6662	2.11E-02	24	2.19%	1923	6.08E-03
								Total		87,674	

2025 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_WB_I80

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	0.97%	851	2.61E-03	9	5.37%	4710	1.44E-02	17	5.49%	4816	1.48E-02
2	0.74%	651	1.99E-03	10	5.43%	4760	1.46E-02	18	5.45%	4781	1.47E-02
3	0.73%	639	1.96E-03	11	5.67%	4972	1.52E-02	19	4.77%	4181	1.28E-02
4	1.19%	1040	3.19E-03	12	5.72%	5016	1.54E-02	20	4.18%	3664	1.12E-02
5	3.26%	2861	8.77E-03	13	5.79%	5078	1.56E-02	21	3.62%	3177	9.74E-03
6	5.88%	5152	1.58E-02	14	5.85%	5126	1.57E-02	22	3.15%	2766	8.47E-03
7	5.76%	5054	1.55E-02	15	5.76%	5051	1.55E-02	23	2.48%	2171	6.65E-03
8	5.60%	4907	1.50E-02	16	5.54%	4860	1.49E-02	24	1.59%	1390	4.26E-03
								Total		87,674	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - I-80 Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations - Without MERV13 Filtration
On-Site 1st - 3rd Floor Residential Receptors (1.5 , 5.4, and 8.5 meter receptor heights)

Emission Year	2025
Receptor Information	Maximum On-Site Receptor
Number of Receptors	151
Receptor Height	1.5, 5.4, and 8.5 meters
Receptor Distances	7 meter grid spacing

Meteorological Conditions	
BAQMD Phillips Hillcrest Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

On-Site Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2013-2017	0.0072	0.2146	0.1962	1st Floor
2013-2017	0.0057	0.1663	0.1525	2nd Floor
2013-2017	0.0045	0.1310	0.1206	3rd Floor

On-Site PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2013-2017	0.2331	0.2170	0.0161	1st Floor
2013-2017	0.1806	0.1681	0.0125	2nd Floor
2013-2017	0.1423	0.1324	0.0098	3rd Floor

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - I-80 Cancer Risk & PM2.5 Impacts at On-Site 1st Floor Residential Receptors - 1.5 meter receptor height
30 Year Residential Exposure - Without MERV13 Filtration

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2025	10	0.0072	0.2146	0.1962	0.098	0.017	0.0009	0.12
1	1	0 - 1	2025	10	0.0072	0.2146	0.1962	1.189	0.201	0.0108	1.40
2	1	1 - 2	2026	10	0.0072	0.2146	0.1962	1.189	0.201	0.0108	1.40
3	1	2 - 3	2027	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
4	1	3 - 4	2028	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
5	1	4 - 5	2029	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
6	1	5 - 6	2030	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
7	1	6 - 7	2031	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
8	1	7 - 8	2032	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
9	1	8 - 9	2033	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
10	1	9 - 10	2034	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
11	1	10 - 11	2035	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
12	1	11 - 12	2036	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
13	1	12 - 13	2037	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
14	1	13 - 14	2038	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
15	1	14 - 15	2039	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
16	1	15 - 16	2040	3	0.0072	0.2146	0.1962	0.187	0.032	0.0017	0.22
17	1	16-17	2041	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
18	1	17-18	2042	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
19	1	18-19	2043	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
20	1	19-20	2044	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
21	1	20-21	2045	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
22	1	21-22	2046	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
23	1	22-23	2047	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
24	1	23-24	2048	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
25	1	24-25	2049	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
26	1	25-26	2050	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
27	1	26-27	2051	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
28	1	27-28	2052	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
29	1	28-29	2053	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
30	1	29-30	2054	1	0.0072	0.2146	0.1962	0.021	0.004	0.0002	0.02
Total Increased Cancer Risk								5.39	0.912	0.049	**6.35**

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.22	0.23

* Third trimester of pregnancy

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - I-80 Cancer Risk & PM2.5 Impacts at On-Site 2nd Floor Residential Receptors - 5.4 meter receptor height
30 Year Residential Exposure - Without MERV13 Filtration

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2025	10	0.0057	0.1663	0.1525	0.077	0.013	0.0007	0.09
1	1	0 - 1	2025	10	0.0057	0.1663	0.1525	0.928	0.156	0.0084	1.09
2	1	1 - 2	2026	10	0.0057	0.1663	0.1525	0.928	0.156	0.0084	1.09
3	1	2 - 3	2027	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
4	1	3 - 4	2028	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
5	1	4 - 5	2029	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
6	1	5 - 6	2030	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
7	1	6 - 7	2031	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
8	1	7 - 8	2032	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
9	1	8 - 9	2033	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
10	1	9 - 10	2034	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
11	1	10 - 11	2035	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
12	1	11 - 12	2036	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
13	1	12 - 13	2037	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
14	1	13 - 14	2038	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
15	1	14 - 15	2039	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
16	1	15 - 16	2040	3	0.0057	0.1663	0.1525	0.146	0.025	0.0013	0.17
17	1	16-17	2041	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
18	1	17-18	2042	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
19	1	18-19	2043	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
20	1	19-20	2044	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
21	1	20-21	2045	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
22	1	21-22	2046	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
23	1	22-23	2047	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
24	1	23-24	2048	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
25	1	24-25	2049	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
26	1	25-26	2050	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
27	1	26-27	2051	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
28	1	27-28	2052	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
29	1	28-29	2053	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
30	1	29-30	2054	1	0.0057	0.1663	0.1525	0.016	0.003	0.0001	0.02
Total Increased Cancer Risk								4.21	0.707	0.038	**4.95**

* Third trimester of pregnancy

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.17	0.18

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - I-80 Cancer Risk & PM2.5 Impacts at On-Site 3rd Floor Residential Receptors - 8.5 meter receptor height
30 Year Residential Exposure - Without MERV13 Filtration

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2025	10	0.0045	0.1310	0.1206	0.062	0.010	0.0006	0.07
1	1	0 - 1	2025	10	0.0045	0.1310	0.1206	0.744	0.123	0.0067	0.87
2	1	1 - 2	2026	10	0.0045	0.1310	0.1206	0.744	0.123	0.0067	0.87
3	1	2 - 3	2027	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
4	1	3 - 4	2028	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
5	1	4 - 5	2029	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
6	1	5 - 6	2030	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
7	1	6 - 7	2031	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
8	1	7 - 8	2032	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
9	1	8 - 9	2033	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
10	1	9 - 10	2034	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
11	1	10 - 11	2035	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
12	1	11 - 12	2036	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
13	1	12 - 13	2037	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
14	1	13 - 14	2038	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
15	1	14 - 15	2039	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
16	1	15 - 16	2040	3	0.0045	0.1310	0.1206	0.117	0.019	0.0010	0.14
17	1	16-17	2041	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
18	1	17-18	2042	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
19	1	18-19	2043	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
20	1	19-20	2044	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
21	1	20-21	2045	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
22	1	21-22	2046	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
23	1	22-23	2047	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
24	1	23-24	2048	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
25	1	24-25	2049	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
26	1	25-26	2050	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
27	1	26-27	2051	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
28	1	27-28	2052	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
29	1	28-29	2053	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
30	1	29-30	2054	1	0.0045	0.1310	0.1206	0.013	0.002	0.0001	0.02
Total Increased Cancer Risk								3.37	0.557	0.030	**3.96**

* Third trimester of pregnancy

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.001	0.13	0.14

CT-EMFAC2017 Emissions Factors for Fitzgerald Drive - 2025

File Name:	Fitzgerald - 1500 Fitzgerald Dr - Contra Costa (SF) - 2025 - Annual.EF
CT-EMFAC2017 Version:	1.0.2.27401
Run Date:	10/14/2021 14:52
Area:	Contra Costa (SF)
Analysis Year:	2025
Season:	Annual

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Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.016	0.524	0.476
Truck 2	0.02	0.932	0.051
Non-Truck	0.964	0.015	0.959

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Road Type:	Major/Collector	
Silt Loading Factor:	CARB	0.032 g/m2
Precipitation Correction:	CARB	P = 60 days N = 365 days

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Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph
PM2.5	0.008646	0.005614	0.003816	0.002734	0.002077	0.001677	0.001441	0.001318
TOG	0.177522	0.11609	0.077858	0.054979	0.041495	0.03305	0.027656	0.024306
Diesel PM	0.00091	0.000758	0.000589	0.000473	0.000405	0.000374	0.000371	0.000391

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Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.377913

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Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002112

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Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.016877

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Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.015084

==========END==========

Fitzgerald Drive Traffic Emissions and Health Risk Calculations

Analysis Year = ***2025***

Vehicle Type	2021 Caltrans Vehicles (veh/day)	2025 Vehicles (veh/day)
Truck 1 (MDT)	428	445
Truck 2 (HDT)	115	120
Non-Truck	14,596	15,180
Total	**15,140**	**15,746**

Increase From 2021	1.04
Vehicles/Direction	**7,873**
Avg Vehicles/Hour/Direction	328

Traffic Data Year = ***2021***

Project Traffic Report Provided ADT	AADT Total	Total Truck
Fitzgerald Drive & Project Driveway	15,140	544
	Percent of Total Vehicles	3.59%

Traffic Increase per Year (%) = *1.00%*

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
DPM_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	43.7	3.4	30	7,873
DPM_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	43.7	3.4	30	7,873
									Total	15,746

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.00037			

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and DPM Emissions - DPM_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.58%	282	1.39E-05	9	7.39%	582	2.87E-05	17	6.54%	515	2.54E-05
2	2.55%	201	9.89E-06	10	6.52%	513	2.53E-05	18	4.65%	366	1.80E-05
3	2.92%	230	1.13E-05	11	5.58%	439	2.16E-05	19	2.39%	188	9.27E-06
4	3.02%	238	1.17E-05	12	6.16%	485	2.39E-05	20	0.96%	76	3.72E-06
5	2.08%	164	8.06E-06	13	5.59%	440	2.17E-05	21	2.75%	217	1.07E-05
6	2.92%	230	1.13E-05	14	5.50%	433	2.13E-05	22	3.60%	283	1.40E-05
7	6.81%	536	2.64E-05	15	4.56%	359	1.77E-05	23	2.28%	179	8.84E-06
8	5.69%	448	2.21E-05	16	5.03%	396	1.95E-05	24	0.96%	76	3.72E-06
								Total		7,875	

2025 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.58%	282	1.39E-05	9	7.39%	582	2.86E-05	17	6.54%	515	2.53E-05
2	2.55%	201	9.88E-06	10	6.52%	513	2.53E-05	18	4.65%	366	1.80E-05
3	2.92%	230	1.13E-05	11	5.58%	439	2.16E-05	19	2.39%	188	9.26E-06
4	3.02%	238	1.17E-05	12	6.16%	485	2.39E-05	20	0.96%	76	3.72E-06
5	2.08%	164	8.06E-06	13	5.59%	440	2.17E-05	21	2.75%	217	1.07E-05
6	2.92%	230	1.13E-05	14	5.50%	433	2.13E-05	22	3.60%	283	1.39E-05
7	6.81%	536	2.64E-05	15	4.56%	359	1.77E-05	23	2.28%	179	8.83E-06
8	5.69%	448	2.20E-05	16	5.03%	396	1.95E-05	24	0.96%	76	3.72E-06
								Total		7,875	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
PM25_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,873
PM25_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,873
									Total	15,746

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.001677			

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and PM2.5 Emissions - PM25_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	90	1.98E-05	9	7.15%	563	1.24E-04	17	7.44%	586	1.29E-04
2	0.42%	33	7.30E-06	10	4.37%	344	7.60E-05	18	8.22%	647	1.43E-04
3	0.43%	34	7.48E-06	11	4.65%	366	8.08E-05	19	5.68%	447	9.87E-05
4	0.26%	20	4.52E-06	12	5.86%	461	1.02E-04	20	4.26%	335	7.41E-05
5	0.50%	39	8.69E-06	13	6.13%	483	1.07E-04	21	3.24%	255	5.63E-05
6	0.90%	71	1.56E-05	14	6.01%	473	1.04E-04	22	3.27%	257	5.68E-05
7	3.81%	300	6.62E-05	15	6.98%	550	1.21E-04	23	2.45%	193	4.26E-05
8	7.79%	613	1.35E-04	16	7.18%	565	1.25E-04	24	1.87%	147	3.25E-05
								Total		7,874	

2025 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	90	1.98E-05	9	7.15%	563	1.24E-04	17	7.44%	586	1.29E-04
2	0.42%	33	7.29E-06	10	4.37%	344	7.59E-05	18	8.22%	647	1.43E-04
3	0.43%	34	7.47E-06	11	4.65%	366	8.08E-05	19	5.68%	447	9.86E-05
4	0.26%	20	4.52E-06	12	5.86%	461	1.02E-04	20	4.26%	335	7.40E-05
5	0.50%	39	8.68E-06	13	6.13%	483	1.06E-04	21	3.24%	255	5.63E-05
6	0.90%	71	1.56E-05	14	6.01%	473	1.04E-04	22	3.27%	257	5.68E-05
7	3.81%	300	6.62E-05	15	6.98%	550	1.21E-04	23	2.45%	193	4.25E-05
8	7.79%	613	1.35E-04	16	7.18%	565	1.25E-04	24	1.87%	147	3.25E-05
								Total		7,874	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEXH_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,873
TEXH_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,873
									Total	15,746

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.03305			

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	90	3.91E-04	9	7.15%	563	2.45E-03	17	7.44%	586	2.55E-03
2	0.42%	33	1.44E-04	10	4.37%	344	1.50E-03	18	8.22%	647	2.82E-03
3	0.43%	34	1.47E-04	11	4.65%	366	1.59E-03	19	5.68%	447	1.95E-03
4	0.26%	20	8.91E-05	12	5.86%	461	2.01E-03	20	4.26%	335	1.46E-03
5	0.50%	39	1.71E-04	13	6.13%	483	2.10E-03	21	3.24%	255	1.11E-03
6	0.90%	71	3.08E-04	14	6.01%	473	2.06E-03	22	3.27%	257	1.12E-03
7	3.81%	300	1.31E-03	15	6.98%	550	2.39E-03	23	2.45%	193	8.39E-04
8	7.79%	613	2.67E-03	16	7.18%	565	2.46E-03	24	1.87%	147	6.41E-04
								Total		7,874	

2025 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	90	3.90E-04	9	7.15%	563	2.45E-03	17	7.44%	586	2.55E-03
2	0.42%	33	1.44E-04	10	4.37%	344	1.50E-03	18	8.22%	647	2.81E-03
3	0.43%	34	1.47E-04	11	4.65%	366	1.59E-03	19	5.68%	447	1.94E-03
4	0.26%	20	8.90E-05	12	5.86%	461	2.01E-03	20	4.26%	335	1.46E-03
5	0.50%	39	1.71E-04	13	6.13%	483	2.10E-03	21	3.24%	255	1.11E-03
6	0.90%	71	3.08E-04	14	6.01%	473	2.06E-03	22	3.27%	257	1.12E-03
7	3.81%	300	1.30E-03	15	6.98%	550	2.39E-03	23	2.45%	193	8.39E-04
8	7.79%	613	2.67E-03	16	7.18%	565	2.46E-03	24	1.87%	147	6.40E-04
								Total		7,874	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEVAP_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,873
TEVAP_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,873
									Total	15,746

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle per Hour (g/hour)	1.37791			
Emissions per Vehicle per Mile (g/VMT)	0.04593			

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	90	5.43E-04	9	7.15%	563	3.40E-03	17	7.44%	586	3.54E-03
2	0.42%	33	2.00E-04	10	4.37%	344	2.08E-03	18	8.22%	647	3.91E-03
3	0.43%	34	2.05E-04	11	4.65%	366	2.21E-03	19	5.68%	447	2.70E-03
4	0.26%	20	1.24E-04	12	5.86%	461	2.79E-03	20	4.26%	335	2.03E-03
5	0.50%	39	2.38E-04	13	6.13%	483	2.92E-03	21	3.24%	255	1.54E-03
6	0.90%	71	4.29E-04	14	6.01%	473	2.86E-03	22	3.27%	257	1.56E-03
7	3.81%	300	1.81E-03	15	6.98%	550	3.32E-03	23	2.45%	193	1.17E-03
8	7.79%	613	3.71E-03	16	7.18%	565	3.42E-03	24	1.87%	147	8.90E-04
								Total		7,874	

2025 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	90	5.42E-04	9	7.15%	563	3.40E-03	17	7.44%	586	3.54E-03
2	0.42%	33	2.00E-04	10	4.37%	344	2.08E-03	18	8.22%	647	3.91E-03
3	0.43%	34	2.05E-04	11	4.65%	366	2.21E-03	19	5.68%	447	2.70E-03
4	0.26%	20	1.24E-04	12	5.86%	461	2.79E-03	20	4.26%	335	2.03E-03
5	0.50%	39	2.38E-04	13	6.13%	483	2.92E-03	21	3.24%	255	1.54E-03
6	0.90%	71	4.28E-04	14	6.01%	473	2.86E-03	22	3.27%	257	1.56E-03
7	3.81%	300	1.81E-03	15	6.98%	550	3.32E-03	23	2.45%	193	1.17E-03
8	7.79%	613	3.71E-03	16	7.18%	565	3.42E-03	24	1.87%	147	8.89E-04
								Total		7,874	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - On-Site Residential Roadway Modeling
Cumulative Operation - Fitzgerald Drive
Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
Year = 2025

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
FUG_EB_FIT	Fitzgerald Drive Eastbound	EB	2	762.9	0.47	13.3	44	1.3	30	7,873
FUG_WB_FIT	Fitzgerald Drive Westbound	WB	2	762.1	0.47	13.3	44	1.3	30	7,873
									Total	15,746

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00211			
Brake Wear - Emissions per Vehicle (g/VMT)	0.01688			
Road Dust - Emissions per Vehicle (g/VMT)	0.01508			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03407			

Emisson Factors from CT-EMFAC2017

2025 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_EB_FIT

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.14%	90	4.03E-04	9	7.15%	563	2.53E-03	17	7.44%	586	2.63E-03
2	0.42%	33	1.48E-04	10	4.37%	344	1.54E-03	18	8.22%	647	2.90E-03
3	0.43%	34	1.52E-04	11	4.65%	366	1.64E-03	19	5.68%	447	2.01E-03
4	0.26%	20	9.18E-05	12	5.86%	461	2.07E-03	20	4.26%	335	1.50E-03
5	0.50%	39	1.77E-04	13	6.13%	483	2.17E-03	21	3.24%	255	1.14E-03
6	0.90%	71	3.18E-04	14	6.01%	473	2.12E-03	22	3.27%	257	1.16E-03
7	3.81%	300	1.35E-03	15	6.98%	550	2.47E-03	23	2.45%	193	8.65E-04
8	7.79%	613	2.75E-03	16	7.18%	565	2.54E-03	24	1.87%	147	6.61E-04
								Total		7,874	

2025 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_WB_FIT

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.14%	90	4.02E-04	9	7.15%	563	2.52E-03	17	7.44%	586	2.63E-03
2	0.42%	33	1.48E-04	10	4.37%	344	1.54E-03	18	8.22%	647	2.90E-03
3	0.43%	34	1.52E-04	11	4.65%	366	1.64E-03	19	5.68%	447	2.00E-03
4	0.26%	20	9.17E-05	12	5.86%	461	2.07E-03	20	4.26%	335	1.50E-03
5	0.50%	39	1.76E-04	13	6.13%	483	2.16E-03	21	3.24%	255	1.14E-03
6	0.90%	71	3.18E-04	14	6.01%	473	2.12E-03	22	3.27%	257	1.15E-03
7	3.81%	300	1.34E-03	15	6.98%	550	2.46E-03	23	2.45%	193	8.65E-04
8	7.79%	613	2.75E-03	16	7.18%	565	2.53E-03	24	1.87%	147	6.60E-04
								Total		7,874	

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Fitzgerarld Drive Traffic - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations - Without MERV13 Filtration
On-Site 1st - 3rd Floor Residential Receptors (1.5 , 5.4, and 8.5 meter receptor heights)

Emission Year	2025
Receptor Information	Maximum On-Site Receptor
Number of Receptors	151
Receptor Height	1.5, 5.4, and 8.5 meters
Receptor Distances	7 meter grid spacing

Meteorological Conditions	
BAQMD Phillips Hillcrest Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

On-Site Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2013-2017	0.0021	0.1960	0.2714	1st Floor
2013-2017	0.0016	0.1369	0.1895	2nd Floor
2013-2017	0.0012	0.0959	0.1328	3rd Floor

On-Site PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2013-2017	0.2114	0.2015	0.0099	1st Floor
2013-2017	0.1476	0.1407	0.0069	2nd Floor
2013-2017	0.1035	0.0986	0.0049	3rd Floor

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Fitzgerarld Drive Cancer Risk & PM2.5 Impacts at On-Site 1st Floor Residential Receptors - 1.5 meter receptor height
30 Year Residential Exposure - Without MERV13 Filtration

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2025	10	0.0021	0.1960	0.2714	0.028	0.015	0.0012	0.04
1	1	0 - 1	2025	10	0.0021	0.1960	0.2714	0.343	0.184	0.0150	0.54
2	1	1 - 2	2026	10	0.0021	0.1960	0.2714	0.343	0.184	0.0150	0.54
3	1	2 - 3	2027	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
4	1	3 - 4	2028	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
5	1	4 - 5	2029	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
6	1	5 - 6	2030	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
7	1	6 - 7	2031	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
8	1	7 - 8	2032	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
9	1	8 - 9	2033	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
10	1	9 - 10	2034	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
11	1	10 - 11	2035	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
12	1	11 - 12	2036	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
13	1	12 - 13	2037	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
14	1	13 - 14	2038	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
15	1	14 - 15	2039	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
16	1	15 - 16	2040	3	0.0021	0.1960	0.2714	0.054	0.029	0.0024	0.09
17	1	16-17	2041	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
18	1	17-18	2042	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
19	1	18-19	2043	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
20	1	19-20	2044	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
21	1	20-21	2045	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
22	1	21-22	2046	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
23	1	22-23	2047	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
24	1	23-24	2048	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
25	1	24-25	2049	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
26	1	25-26	2050	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
27	1	26-27	2051	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
28	1	27-28	2052	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
29	1	28-29	2053	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
30	1	29-30	2054	1	0.0021	0.1960	0.2714	0.006	0.003	0.0003	0.01
Total Increased Cancer Risk								1.56	0.833	0.068	**2.46**

* Third trimester of pregnancy

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.0004	0.20	0.21

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Fitzgerarld Drive Cancer Risk & PM2.5 Impacts at On-Site 2nd Floor Residential Receptors - 5.4 meter receptor height
30 Year Residential Exposure - Without MERV13 Filtration

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	TOTAL
0	0.25	-0.25 - 0*	2025	10	0.0016	0.1369	0.1895	0.022	0.011	0.0009	0.03
1	1	0 - 1	2025	10	0.0016	0.1369	0.1895	0.269	0.128	0.0105	0.41
2	1	1 - 2	2026	10	0.0016	0.1369	0.1895	0.269	0.128	0.0105	0.41
3	1	2 - 3	2027	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
4	1	3 - 4	2028	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
5	1	4 - 5	2029	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
6	1	5 - 6	2030	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
7	1	6 - 7	2031	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
8	1	7 - 8	2032	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
9	1	8 - 9	2033	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
10	1	9 - 10	2034	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
11	1	10 - 11	2035	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
12	1	11 - 12	2036	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
13	1	12 - 13	2037	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
14	1	13 - 14	2038	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
15	1	14 - 15	2039	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
16	1	15 - 16	2040	3	0.0016	0.1369	0.1895	0.042	0.020	0.0016	0.06
17	1	16-17	2041	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
18	1	17-18	2042	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
19	1	18-19	2043	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
20	1	19-20	2044	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
21	1	20-21	2045	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
22	1	21-22	2046	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
23	1	22-23	2047	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
24	1	23-24	2048	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
25	1	24-25	2049	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
26	1	25-26	2050	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
27	1	26-27	2051	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
28	1	27-28	2052	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
29	1	28-29	2053	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
30	1	29-30	2054	1	0.0016	0.1369	0.1895	0.005	0.002	0.0002	0.01
Total Increased Cancer Risk								1.22	0.582	0.047	**1.85**

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.0003	0.14	0.15

* Third trimester of pregnancy

Pinole Vista 1500 Fitzgerarld Drive, Pinole, CA - Fitzgerarld Drive Cancer Risk & PM2.5 Impacts at On-Site 3rd Floor Residential Receptors - 8.5 meter receptor height
30 Year Residential Exposure - Without MERV13 Filtration

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

	Infant/Child			Adult
Age -->	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2025	10	0.0012	0.0959	0.1328	0.016	0.007	0.0006	0.02
1	1	0 - 1	2025	10	0.0012	0.0959	0.1328	0.199	0.090	0.0073	0.30
2	1	1 - 2	2026	10	0.0012	0.0959	0.1328	0.199	0.090	0.0073	0.30
3	1	2 - 3	2027	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
4	1	3 - 4	2028	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
5	1	4 - 5	2029	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
6	1	5 - 6	2030	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
7	1	6 - 7	2031	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
8	1	7 - 8	2032	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
9	1	8 - 9	2033	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
10	1	9 - 10	2034	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
11	1	10 - 11	2035	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
12	1	11 - 12	2036	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
13	1	12 - 13	2037	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
14	1	13 - 14	2038	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
15	1	14 - 15	2039	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
16	1	15 - 16	2040	3	0.0012	0.0959	0.1328	0.031	0.014	0.0012	0.05
17	1	16-17	2041	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
18	1	17-18	2042	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
19	1	18-19	2043	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
20	1	19-20	2044	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
21	1	20-21	2045	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
22	1	21-22	2046	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
23	1	22-23	2047	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
24	1	23-24	2048	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
25	1	24-25	2049	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
26	1	25-26	2050	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
27	1	26-27	2051	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
28	1	27-28	2052	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
29	1	28-29	2053	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
30	1	29-30	2054	1	0.0012	0.0959	0.1328	0.003	0.002	0.0001	0.01
Total Increased Cancer Risk								0.90	0.408	0.033	**1.34**

Hazard Index	Maximum Fugitive PM2.5	Total PM2.5
0.0002	0.10	0.10

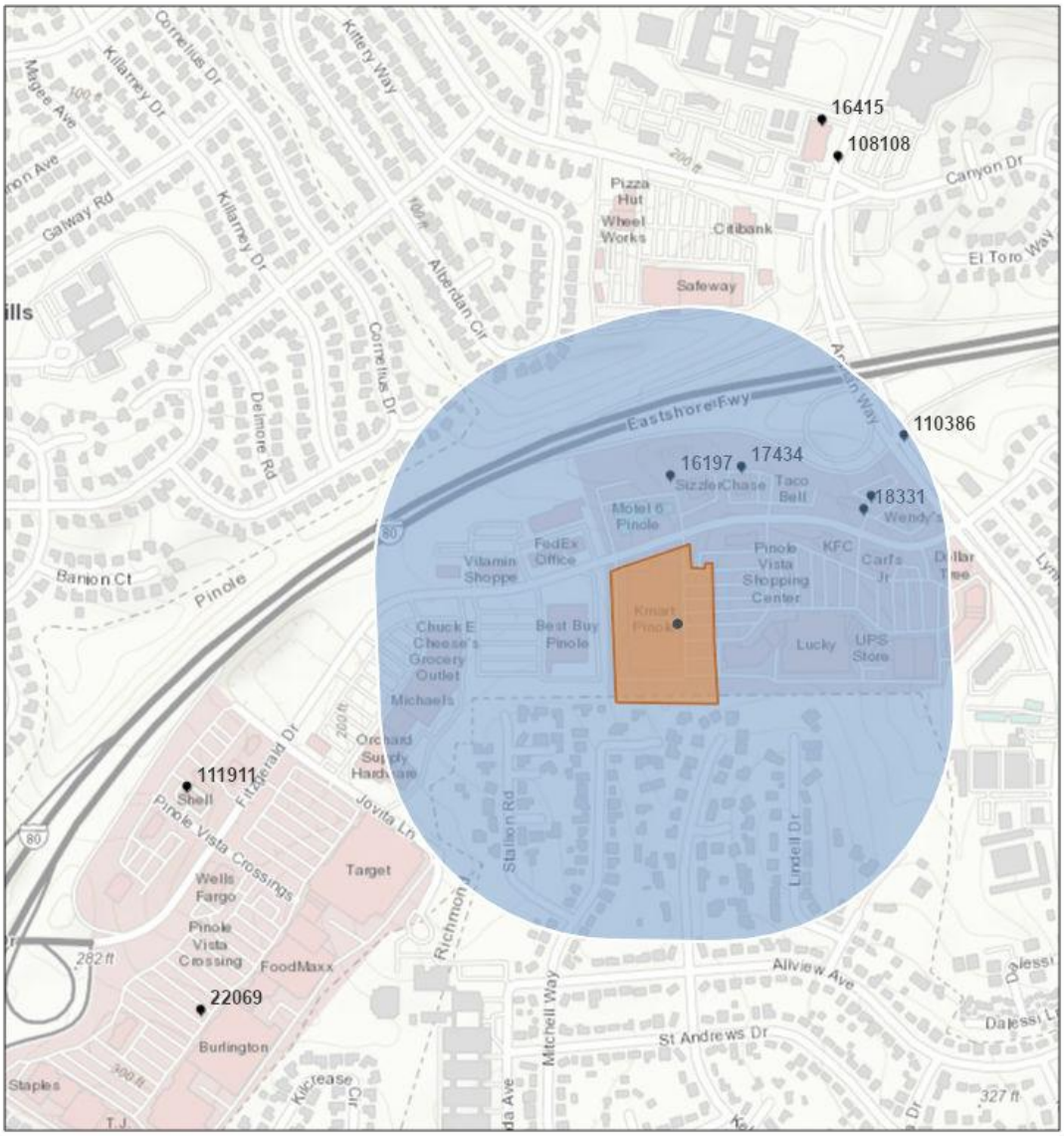
* Third trimester of pregnancy

Stationary Source Risk & Hazards Screening Report

Area of Interest (AOI) Information

Area : 5,446,907.59 ft²

Oct 4 2021 10:37:02 Pacific Daylight Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Facilities 2018	5	N/A	N/A

Permitted Facilities 2018

#	FACID	Name	Address	City	St
1	14155	West County Wastewater District	1541 Fitzgerald Dr	Pinole	CA
2	16197	Global Power Group, Inc	1330 Fitzgerld Dr, ToysRUs 5804	Pinole	CA
3	17434	Target Store T-0737	1400 Fitzgerald Dr	Pinole	CA
4	18331	Lucky #742	1530 Fitzgerald Dr	Pinole	CA
5	110386	7- Eleven Inc. #37994	2401 Appian Way	Pinole	CA

#	Zip	County	Cancer	Hazard	PM_25	Type	Count
1	94564	Contra Costa	1.460	0.000	0.000	Generators	1
2	94564	Contra Costa	0.000	0.000	0.000	Generators	1
3	94564	Contra Costa	0.010	0.000	0.000	Generators	1
4	94564	Contra Costa	0.000	0.000	0.000	Generators	1
5	94564	Contra Costa	51.730	0.230	0.000	Gas Dispensing Facility	1

Note: The estimated risk and hazard impacts from these sources would be expected to be substantially lower when site specific Health Risk Screening Assessments are conducted.

The screening level map is not recommended for evaluating sensitive land uses such as schools, senior centers, day cares, and health facilities.

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Bay Area Air Quality Management District

Risk & Hazard Stationary Source Inquiry Form

This form is required when users request stationary source data from BAAQMD

This form is to be used with the BAAQMD's Google Earth stationary source screening tables.

Click here for guidance on coducting risk & hazard screening, including roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.

Click here for District's Recommended Methods for Screening and Modeling Local Risks and Hazards document.

Table A: Requester Contact Information

Date of Request	**10/4/2021**
Contact Name	Casey Divine
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x103
Email	cdivine@illingworthrodkin.com
Project Name	Pinole Vista
Address	1500 Fitzgerald Drive
City	Pinole
County	Contra Costa
Type (residential, commercial, mixed use, industrial, etc.)	Residential
Project Size (# of units or building square feet)	223du

Comments:

For Air District assistance, the following steps must be completed:

1. Complete all the contact and project information requested in **Table A** e forms will not be processed. Please include a project site map.

2. Download and install the free program Google Earth, **http://www.google.com/earth/download/ge/,** and then download the county specific Google Earth stationary source application files from the District's website, **http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx.** The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table, including the name, location, and preliminary estimated cancer risk, hazard index, and PM2.5 concentration.

3. Find the project site in Google Earth by inputting the site's address in the Google Earth search box.

4. Identify stationary sources within at least a 1000ft radius of project site. Verify that the location of the source on the map matches with the source's address in the Information Table, by using the Google Earth address search box to confirm the source's address location. Please report any mapping errors to the District.

5. List the stationary source information in **Table B** n only.

6. Note that a small percentage of the stationary sources have Health Risk Screening Assessment (HRSA) data INSTEAD of screening level data. These sources will be noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been modeled and cannot be adjusted further.

7. Email this completed form to District staff. District staff will provide the most recent risk, hazard, and PM2.5 data that are available for the source(s). If this information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three weeks.

Note that a public records request received for the same stationary source information will cancel the processing of your SSIF request.

Submit forms, maps, and questions to Matthew Hanson at 415-749-8733, or mhanson@baaqmd.gov .

Table B: Google Earth data

Distance from Receptor (feet) or MEI[1]	Plant No.	Facility Name	Address	Cancer Risk[2]	Hazard Risk[2]	$PM_{2.5}$[2]	Source No.[3]	Type of Source[4]	Fuel Code[5]	Status/Comments
+1000	14155	West County Wastewater District	1541 Fitzgerald Dr	1.46	-	-		Generators		2018 Dataset
950	16197	Global Power Group, Inc	1330 Fitzgerld Dr, ToysRUs 5804	-	-	-		Generators		2018 Dataset
+1000	17434	Target Store T-0737	1400 Fitzgerald Dr	0.01	-	-		Generators		2018 Dataset
415	18331	Lucky #742	1530 Fitzgerald Dr	-	-	-		Generators		2018 Dataset
+1000	110386	7- Eleven Inc. #37994	2401 Appian Way	51.73	0.23	-		Gas Dispensing Facility		2018 Dataset

Construction MEI

Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
0.04	0.06	#VALUE!	#VALUE!
0.04	#VALUE!	#VALUE!	#VALUE!
0.04	0.0004	#VALUE!	#VALUE!
0.15	#VALUE!	#VALUE!	#VALUE!
0.01	0.77	0.003	#VALUE!

Project Site

Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
+1000	14155	0.04	0.06	#VALUE!	#VALUE!
340	16197	0.22	#VALUE!	#VALUE!	#VALUE!
500	17434	0.12	0.001	#VALUE!	#VALUE!
415	18331	0.15	#VALUE!	#VALUE!	#VALUE!
+1000	110386	0.01	0.77	0.003	#VALUE!

Footnotes:

1. Maximally exposed individual
2. These Cancer Risk, Hazard Index, and PM2.5 columns represent the values in the Google Earth Plant Information Table.
3. Each plant may have multiple permits and sources.
4. Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
5. Fuel codes: 98 = diesel, 189 = Natural Gas.
6. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
7. The date that the HRSA was completed.
8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
    a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
    b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less.
    c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010.
    Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
    d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect
    e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Mulitplier worksheet.
    f. Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.
    g. This spray booth is considered to be insignificant.

Date last updated:
03/13/2018

MEMORANDUM

To:	Richard Schoebel, Retail Opportunity Investments Corp. (ROIC)	**From:**	Yingying Cai, Rei Scampavia, and Brian Kearns
cc:	Chris Cole, Metrovation		
Date:	October 26, 2021		
Subject:	Biological Constraints Assessment for ROIC Pinole Vista Mixed Use Project, Pinole, Contra Costa County, California (WRA Project #31272)		

Purpose

The purpose of this memorandum is to summarize the methods, results, and conclusions of a biological constraints assessment to support the Retail Opportunity Investments Corp. (ROIC) Pinole Vista Mixed Use Project (Project), located in the City of Pinole in Contra Costa County, California (Attachment A, Figure 1). The Project involves the creation of a mixed-use redevelopment, which will utilize an existing commercial parking lot, located at 1500 Fitzgerald Drive, Pinole, California (Attachment A, Figure 2). This memorandum also includes an analysis of potential project impacts, as well as recommended avoidance and minimization measures. As no project designs have been created to date, this memorandum includes only a preliminary analysis of potential biological constraints.

Methods

On September 15, 2021, WRA biologists, Rei Scampavia and Brian Kearns, traversed the Project Area on foot to document existing conditions. The potential occurrence of special-status species in the overall Project Area was evaluated by first determining which special-status species occur in the vicinity of the Project Area through a literature and database search. Resources reviewed included the following:

- California Department of Fish and Wildlife (CDFW) Natural Diversity Database records (CNDDB; CDFW 2021),
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation Species Lists (USFWS 2021),
- California National Plant Society (CNPS) Inventory records (CNPS 2021a),
- A Manual of California Vegetation Online (CNPS 2021b),
- Consortium of California Herbaria 2 (CCH2 2021),
- SoilWeb (CSRL 2021),
- Contemporary aerial photographs (Google Earth 2021), and
- Historical aerial photographs (NETR 2021).

During the site visit, land cover types within the Project Area were characterized, mapped, and classified as sensitive or non-sensitive. The Project Area was also examined for indicators of wetlands, non-wetland

waters, and riparian habitat potentially subject to the jurisdiction of the U.S. Army Corps of Engineers (Corps), the Regional Water Quality Control Board (RWQCB), and/or the CDFW.

The Project Area was assessed for potential development-related constraints. This analysis was performed to a level of detail necessary to understand what types of biological constraints may be associated with the Project. The conclusions of this report are based on conditions observed at the time of the site visit and regulatory policies and practices in place at the time the report was prepared; changes that may occur in the future with regard to conditions, policies, or practices could affect the conclusions presented in this study.

Results

Site Description

A map of land cover types and potential biological constraints within the Project Area is included as Attachment A, Figure 3. A list of species observed within and around the Project Area is included as Attachment B. Representative site photographs are included as Attachment C. A list of special-status species documented to occur in the vicinity of the Project Area, and an analysis of their potentials to occur within the Project Area, are included as Attachment D.

The majority of the Project Area consists of developed and landscaped areas. Coast live oak (*Quercus agrifolia*) woodland occurs along the southern boundary of the Project Area on a steep slope between the parking lot and a residential development. Historic aerial imagery (NETR 2021) indicates the coast live oak woodland in this marginal area became established after 1980. Within this wooded area, two parallel concrete ephemeral ditches run east-west throughout the length of the Project Area. Elevations within the Project Area range from 204 to 264 feet World Geodetic System (WGS) 84 (Google Earth 2021). Soils within the Project Area consist of Los Osos clay loam, 15 to 30 percent slopes (CSRL 2021).

The Project Area is surrounded by roads, parking lots, and retail stores to the north, east, and west. The southern border of the Project Area is adjacent to a residential development. Prior to 1968, the Project Area and surrounding areas consisted of grassland habitat (NETR 2021, Google Earth 2021). Between 1968 and 1980, the housing development south of the Project Area was constructed (NETR 2021, Google Earth 2021). The parking lot and associated buildings were constructed sometime in the early 1980s (NETR 2021). The Project Area and surrounding land uses have remained relatively unchanged since the 1980s (Google Earth 2021).

Land Cover Types

<u>Non-Sensitive Land Cover Types</u>

The Project Area includes three (3) non-sensitive land cover types: developed/landscaped, coast live oak woodland, and ephemeral ditch. The majority of the Project Area (6.03 acres) is developed/landscaped. Developed/landscaped areas within the Project Area include paved parking lot, a department store, a loading dock, and narrow strips of ornamental plantings of trees and shrubs, such as silver birch (*Betula pendula*) and crape myrtle (*Lagerstroemia indica*). This land cover type does not have an associated vegetation community, alliance, or association as it is devoid of non-ornamental vegetation.

Within the Project Area, 0.81 acre of coast live oak woodland occurs along the southern boundary of the Project Area on a steep man-made slope between the parking lot and a residential development. Coast live oak woodland within the Project Area is characterized by a mix of young and mature trees, with a relatively open understory of mostly bare ground and dense leaf litter. The canopy of coast live oak woodland is dominated by coast live oak, with lower cover of red willow (*Salix laevigata*), Aleppo pine (*Pinus halepensis*), and coast redwood (*Sequoia sempervirens*). The understory is characterized by scattered poison oak (*Toxicodendron diversilobum*) shrubs, and patches of non-native ruderal herbaceous vegetation, including rattail sixweeks grass (*Festuca myuros*), English ivy (*Hedera helix*), bristly ox-tongue (*Helminthotheca echioides*), bird's foot trefoil (*Lotus corniculatus*), and wild radish (*Raphanus sativus*). Vegetation within coast live oak woodland meets the requirements of the *Quercus agrifolia* Forest & Woodland Alliance (CDFW Rank S4), which is not considered a sensitive land cover type (CNPS 2021b).

Two parallel ephemeral ditches, covering 0.06 acre in total, occur within coast live oak woodland south of the parking lot. These concrete, v-shaped ditches appear to collect urban runoff from the residential development uphill, which is funneled into two storm drains located in roughly the center of the Project Area on an east-west axis. The ephemeral ditches did not contain any surface water at the time of the site visit, and appear to only hold runoff during precipitation events. Ephemeral ditches are sloped towards the storm drains and therefore unlikely to hold water once precipitation ceases. This land cover type does not have an associated vegetation community, alliance, or association as it is devoid of vegetation. Although they are not armored or concrete-lined, the ephemeral ditches within the Project Area are unlikely to be considered jurisdictional by the Corps, RWQCB, or CDFW, as they are man-made ephemeral features, excavated in upland for the sole purpose of collecting urban stormwater runoff.

<u>Sensitive Land Cover Types</u>

The Project Area does not include potential wetlands or waters of the U.S. and State, riparian areas, or other sensitive land cover types.

Special-status Plant Species

No special-status plant species were observed in the Project Area during the site assessment. Ninety-eight (98) special-status plant species have been documented within the vicinity of the Project Area (CDFW 2021, CNPS 2021a; Attachment B). These species are unlikely or have no potential to occur in the Project Area due to one or more of the following reasons:

- Specific edaphic conditions, such as serpentine or sandy soils, are absent;
- Specific hydrologic conditions, such as riverine or tidal waters, are absent;
- Common associated plant species and vegetation communities are absent;
- A viable seed bank is unlikely to be present due to historic and contemporary soil alterations; and
- Development including pavement and structures precludes the presence of the species.

Special-status Wildlife Species

No special-status wildlife species were observed in the Project Area during the site assessment. Fifty-five (55) special-status wildlife species have been documented within the vicinity of the Project Area (CDFW

2021, USFWS 2021; Attachment B). Fifty-four (54) of these species are unlikely or have no potential to occur in the Project Area zone due to one or more of the following reasons:

- The setting of the Project Area is thoroughly urban and highly disturbed, making it unsuitable for special-status species;
- Aquatic habitats necessary to support special-status wildlife species (e.g., ponds, freshwater streams/rivers) are not present;
- Vegetation communities (e.g., tidal or freshwater marsh, grassland, oak woodlands, old-growth coniferous forest, and riparian woodland/forest) that provide nesting and/or foraging resources necessary to support special-status wildlife species are not present;
- Structures or vegetation (e.g., caves, old-growth trees, and small mammal burrows) necessary to provide nesting or cover habitat to support special-status wildlife species are not present;
- Host plants necessary to provide larval and nectar resources required for the completion of life cycles for specific special-status insects are not present; and
- The Project Area is outside of special-status wildlife species' documented range.

One (1) special-status wildlife species was determined to have potential to occur within the Project Area: white-tailed kite (*Elanus leucurus*, CDFW Fully Protected). This species is discussed below. Additionally, given that the Project Area is located in relatively close proximity to the documented range of the Alameda whipsnake (AWS; *Masticophis lateralis euryxanthus*, Federal Threatened, State Threatened), it is discussed in further detail below despite being unlikely to occur within the Project Area.

<u>White-tailed kite (Moderate potential to nest)</u>

The white-tailed kite is resident in open to semi-open habitats throughout the lower elevations of California, including grasslands, savannahs, woodlands, agricultural areas and wetlands. Vegetative structure and prey availability seem to be more important habitat elements than associations with specific plants or vegetative communities (Dunk 1995). Nests are constructed mostly of twigs and placed in trees, often at habitat edges. Nest trees are highly variable in size, structure, and immediate surroundings, ranging from shrubs to trees greater than 150 feet tall (Dunk 1995). This species preys upon a variety of small mammals, as well as other vertebrates and invertebrates.

White-tailed kite has a moderate potential to nest in the larger trees along the southern portion of the Project Area.

<u>Alameda whipsnake (Unlikely to occur, but documented in the vicinity)</u>

AWS is restricted to the inner Coast Range in western and central Contra Costa and Alameda Counties (USFWS 2006). AWS is associated with scrub communities, including mixed chaparral, chamise-redshank chaparral, coastal scrub, and annual grassland and oak woodlands that lie adjacent to scrub habitats that contain areas of rock outcroppings. Rock outcroppings are important as they are a favored location for lizard prey. AWS frequently venture into adjacent habitats, including grassland, oak savanna, and occasionally oak-bay woodland.

AWS was listed as California State Threatened on June 6, 1971, Federal Threatened on December 5, 1997 (62 FR 64306), and critical habitat was designated on October 2, 2006 (71 FR 58176). The range of AWS is restricted to the inner Coast Range in western and central Contra Costa and Alameda Counties (USFWS 2006). The historical range of AWS has been fragmented into five (5) disjunct populations: Tilden-Briones,

Oakland-Las Trampas, Hayward-Pleasanton Ridge, Sunol-Cedar Mountain, and the Mount Diablo-Black Hills (USFWS 1997).

The physical and biological features for AWS include: scrub/shrub communities with a mosaic of open and closed canopy; woodland or annual grassland plant communities contiguous to lands containing scrub communities; lands containing rock outcrops, talus, and small mammal burrows within or in proximity to scrub communities; and accessible dispersal habitat (USFWS 2006). Use of habitats other than scrub by AWS is now known to be more common, especially for corridor movement. Thus, habitats, including grassland and riparian communities, adjacent to scrub habitat are considered essential to AWS conservation (USFWS 2006).

The nearest documented occurrence of AWS is approximately 4.1 miles southeast of the Project Area near San Pablo Reservoir (CDFW 2021). Critical habitat has also been designated for AWS approximately 2 miles south of the Project Area in the same vicinity as the aforementioned occurrence. However, the Project Area is separated from known source populations of AWS by large swaths of residential development and major roadways, both of which are considered to be a complete barrier to dispersal for AWS. Additionally, the physical and biological features discussed above are generally absent from the Project Area, given that the hillside to the south of the developed portion of the Project Area is generally devoid of rocky outcrops or scrub/shrub cover. Given these factors, AWS is considered unlikely to traverse the Project Area during any portion of its life history.

Potential Project Impacts and Recommended Avoidance and Mitigation Measures

No potentially sensitive land cover type occurs within the Project Area. No special-status species were observed within the Project Area, and no special-status plants or wildlife, with the exception of white-tailed kite, have potential to occur within the Project Area. Nesting birds, including white-tailed kite, have potential to occur in these areas, particularly in landscaped and natural vegetation within the Project Area (Appendix A, Figure 3). Furthermore, some trees within the Project Area are protected under the Ordinance of the Pinole Municipal Code (Tree Ordinance). Restricting work, including equipment staging and access, to paved portions of the Project Area should minimize impacts to nesting birds, including white-tailed kite, and protected trees. The measures described below should be implemented to reduce any impacts to a less-than-significant level.

Nesting Birds

<u>Potential Project Impacts</u>

Project activities have the potential to result in direct or indirect impacts to native nesting birds. Nesting birds, including white-tailed kite, have the potential to nest in trees, shrubs, and herbaceous vegetation, and on man-made structures within the Project Area. While less likely due to frequent disturbance, nesting birds may also nest in trees, shrubs, herbaceous vegetation, and on man-made structures within the Project Area. Most nesting birds in California are protected by the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code. As a result of these protections, the removal or disturbance of active nests (i.e., those containing eggs or young) is prohibited. While no specific permit is required for nesting bird protection, Fish and Game Code requires avoidance of impacts to nesting birds. Areas within the Project Area with the greatest likelihood to support nesting birds include trees and other landscaping or natural cover in adjacent undeveloped areas.

Recommended Avoidance and Minimization Measures

To avoid impacts to these birds in compliance with Fish and Game Code, tree removal can be conducted outside of the breeding bird season, which is February 1 through August 31. If construction is scheduled to commence between February 1 and August 31, pre-construction surveys for breeding birds would be needed within 14 days prior to construction. If active bird nests are found, avoidance buffers specific to the species in question and setting of the nest would be required as determined by a qualified biologist. The buffers would establish a "no-construction zone" which would remain in place until after young have fledged the nest or the nest otherwise becomes inactive. At a minimum, any active nests should be monitored during construction to ensure that construction activities are not affecting nesting success. Nesting bird surveys would generally be repeated during the nesting bird season if the Project experiences work stoppages greater than 14 days, given that new nests may have been initiated in the absence of disturbance.

Trees

Potential Project Impacts

A total of 83 trees are located within the Project Area, including 42 trees large enough and/or of select native tree species to be considered protected trees per the City of Pinole's Tree Ordinance (Attachment A, Figure 3). Protected trees are concentrated in coast live oak woodland; however, scattered protected trees are also present in landscaped portions of the Project Area. A complete list of all trees surveyed, and a discussion of the Tree Ordinance, is presented in a separate tree survey report also prepared by WRA.

Recommended Avoidance and Minimization Measures

Should any protected trees be removed, all applicable measures discussed in the Tree Ordinance, including obtaining a tree removal permit, should be adopted. Further recommendations are described in the WRA tree survey report.

Conclusions

Potential biological constraints within the Project Area include nesting birds and protected trees. It is recommended that project-specific avoidance and minimization measures be developed as the Project design is advanced.

Literature Cited

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Attachments

Attachment A. Figures
- Figure 1. Project Area Location
- Figure 2. Aerial View of the Project Area
- Figure 3. Biological Constraints within the Project Area

Attachment B. Species Observed within and around the Project Area

Attachment C. Representative Site Photographs

Attachment D. Special-Status Species Potentials Table

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Attachment A
Figures

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Sources: National Geographic, WRA | Prepared By: njander, 9/20/2021

Figure 1. Project Area Regional Location Map

ROIC Pinole Vista
Mixed Use Project
Pinole, Contra Costa County
California

0 0.5 1 Miles

N

ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\31000\31272\GIS\ArcMap\31272Base.aprx

Sources: USDA NAIP Imagery 2020, WRA | Prepared By: njander, 9/17/2021

Figure 2. Aerial View of the Project Area

ROIC Pinole Vista
Mixed Use Project
Pinole, Contra Costa County
California

0 100 200 Feet

N

ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\31000\31272\GIS\ArcMap\312728ase.aprx

Sources: USDA NAIP Imagery 2020, WRA | Prepared By: njander, 10/6/2021

Figure 3. Biological Constraints within the Project Area

ROIC Pinole Vista
Mixed Use Project
Pinole, Contra Costa County
California

0 50 100 Feet

N

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Attachment B
Species Observed within and around the Project Area

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Attachment B-1. Plant species observed within the Project Area on September 15, 2021

Scientific Name	Common Name	Origin	Form	Rarity Status[1]	CAL-IPC Status[2]	Wetland Status[3]
Agave americana	Century plant	non-native	perennial herb	-	-	-
Avena sp.	Oat	non-native (invasive)	-	-	Moderate	-
Betula pendula	Silver birch	non-native	tree			
Bromus hordeaceus	Soft chess	non-native (invasive)	annual grass	-	Limited	FACU
Carduus pycnocephalus ssp. *pycnocephalus*	Italian thistle	non-native (invasive)	annual herb	-	Moderate	-
Convolvulus arvensis	Field bindweed	non-native	perennial herb, vine	-	-	-
Dietes iridoides	Fortnight lily	non-native	perennial herb	-	-	-
Epilobium brachycarpum	Willow herb	native	annual herb	-	-	FAC
Erigeron bonariensis	Flax-leaved horseweed	non-native	annual herb	-	-	FACU
Eucalyptus globulus	Blue gum	non-native (invasive)	tree	-	Limited	-
Eucalyptus polyanthemos	Silver dollar gum	non-native	tree	-	-	-
Festuca myuros	Rattail sixweeks grass	non-native (invasive)	annual grass	-	Moderate	FACU
Hedera helix	English ivy	non-native (invasive)	vine, shrub	-	High	FACU
Helminthotheca echioides	Bristly ox-tongue	non-native (invasive)	annual, perennial herb	-	Limited	FAC
Hypochaeris radicata	Hairy cats ear	non-native (invasive)	perennial herb	-	Moderate	FACU
Lactuca saligna	Willow lettuce	non-native	annual herb	-	-	UPL
Lagerstroemia indica	Crape myrtle	non-native	tree	-	-	-
Ligustrum sp.	Privet	non-native	shrub	-	-	-
Lotus corniculatus	Bird's foot trefoil	non-native	perennial herb	-	-	FAC
Pinus halepensis	Aleppo pine	native	tree	-	-	-
Pinus pinea	Italian stone pine	non-native	tree	-	-	-
Pyrus calleryana	Bradford pear	non-native	tree	-	-	-
Quercus agrifolia	Coast live oak	native	tree	-	-	-
Quercus chrysolepis	Gold cup live oak	native	tree	-	-	-
Quercus ilex	Holly oak	non-native	tree	-	-	-
Raphanus sativus	Wild radish	non-native (invasive)	annual, biennial herb	-	Limited	-

Scientific Name	Common Name	Origin	Form	Rarity Status[1]	CAL-IPC Status[2]	Wetland Status[3]
Salix laevigata	Red willow	native	tree	-	-	FACW
Salix lasiolepis	Arroyo willow	native	tree, shrub	-	-	FACW
Salvia rosmarinus	Rosemary	non-native	shrub	-	-	-
Sequoia sempervirens	Coast redwood	native	tree	-	-	-
Stipa miliacea var. miliacea	Smilo grass	non-native (invasive)	perennial grass	-	Limited	-
Toxicodendron diversilobum	Poison oak	native	vine, shrub	-	-	FACU
Trachelospermum jasminoides	Star jasmine	non-native	vine, shrub	-	-	-
Vicia sp.	vetch	-	vine	-	-	-

All species identified using the *Jepson Flora Project* (Jepson eFlora 2021*)*; nomenclature follows Jepson eFlora. Sp.: "species", intended to indicate that the observer was confident in the identity of the genus but uncertain which species.

[1]Rare Status: The CNPS Inventory of Rare and Endangered Plants (CNPS 2021)

- FE: Federal Endangered
- FT: Federal Threatened
- SE: State Endangered
- ST: State Threatened
- SR: State Rare
- Rank 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
- Rank 1B: Plants rare, threatened, or endangered in California and elsewhere
- Rank 2A: Plants presumed extirpated in California, but more common elsewhere
- Rank 2B: Plants rare, threatened, or endangered in California, but more common elsewhere
- Rank 3: Plants about which we need more information – a review list
- Rank 4: Plants of limited distribution – a watch list

[2]Invasive Status: California Invasive Plant Inventory (Cal-IPC 2021)

- High: Severe ecological impacts; high rates of dispersal and establishment; most are widely distributed ecologically.
- Moderate: Substantial and apparent ecological impacts; moderate-high rates of dispersal, establishment dependent on disturbance; limited-moderate distribution ecologically
- Limited: Minor or not well documented ecological impacts; low-moderate rate of invasiveness; limited distribution ecologically
- Assessed: Assessed by Cal-IPC and determined to not be an existing current threat

Scientific Name	Common Name	Origin	Form	Rarity Status[1]	CAL-IPC Status[2]	Wetland Status[3]

[3]Wetland Status: National List of Plant Species that Occur in Wetlands, Arid West Region (Corps 2018)

OBL: Almost always a hydrophyte, rarely in uplands
FACW: Usually a hydrophyte, but occasionally found in uplands
FAC: Commonly either a hydrophyte or non-hydrophyte
FACU: Occasionally a hydrophyte, but usually found in uplands
UPL: Rarely a hydrophyte, almost always in uplands
NL: Rarely a hydrophyte, almost always in uplands
NI: No information; not factored during wetland delineation

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Attachment B-2. Wildlife species observed within and around the Project Area on September 15, 2021

Scientific name	Common Name	Status
Reptiles		
Sceloporus occidentalis	Western fence lizard	No status
Birds		
Thryomanes bewickii	Bewick's wren	No status
Meleagris gallopavo	Wild turkey	No status
Sialia mexicana	Western bluebird	No status
Zonotrichia leucophrys	White-crowned sparrow	No status

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Attachment C
Representative Site Photographs

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Photograph 1. View of a developed, paved lot in the western portion of the Project Area, facing north.

Photograph 2. View of a landscaped area in the northern portion of the Project Area, facing east.

Photograph 3. View of a developed, paved lot with landscaped islands in the center of the Project Area, facing south.

Photograph 4. View of coast live oak woodland in the southern portion of the Project Area, facing northeast.

Photograph 5. View of coast live oak woodland and a concrete, ephemeral ditch in the southern portion of the Project Area, facing west.

Photograph 6. View of a concrete ephemeral ditch in the southwestern portion of the Project Area, facing west.

Photograph 7. View of a concrete ephemeral ditch (bottom) and coast live oak woodland in the southern portion of the Project Area, facing north.

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Attachment D
Special-Status Species Potential Table

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Attachment D. Table of Special-status Plants Documented in the Vicinity of the Project Area. List compiled from the California Department of Fish and Wildlife Natural Diversity Database (CDFW 2021), U.S. Fish and Wildlife Service Information for Planning and Conservation Database (USFWS 2021), and California Native Plant Society Electronic Inventory of Rare and Endangered Plants (CNPS 2021a) for the Richmond, Petaluma Point, Mare Island, Benicia, Briones Valley, Oakland East, Oakland West, San Francisco North, and San Quentin USGS 7.5-minute quadrangles.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
PLANTS				
Napa false indigo *Amorpha californica* var. *napensis*	Rank 1B.2	broadleafed upland forest, chaparral, cismontane woodland. Elevation ranges from 165 to 6560 feet (50 to 2000 meters). Blooms Apr-Jul.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrences of this species are in San Rafael and Mill Valley, approximately 14 miles west of the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
bent-flowered fiddleneck *Amsinckia lunaris*	Rank 1B.2	cismontane woodland, coastal bluff scrub, valley and foothill grassland. Elevation ranges from 10 to 1640 feet (3 to 500 meters). Blooms Mar-Jun.	**Unlikely.** Woodland habitat within the Project Area was heavily graded within the past 50 years, when it was converted from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland habitat within the Project Area. The nearest documented occurrences of this species are in naturally-occurring woodlands, approximately 4 miles southeast of the Project Area.	No further actions are recommended for this species.
California androsace *Androsace elongata* ssp. *acuta*	Rank 4.2	chaparral, cismontane woodland, coastal scrub, meadows and seeps, pinyon and juniper woodland, valley and foothill grassland. Elevation ranges from 490 to 4280 feet (150 to 1305 meters). Blooms Mar-Jun.	**Unlikely.** Woodland habitat within the Project Area was heavily graded within the past 50 years, when it was converted from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland habitat within the Project Area. The nearest documented occurrences of this species within the past century is located in Walnut Creek, approximately 15 miles southeast of the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
coast rockcress *Arabis blepharophylla*	Rank 4.3	broadleafed upland forest, coastal bluff scrub, coastal prairie, coastal scrub. Elevation ranges from 10 to 3610 feet (3 to 1100 meters). Blooms Feb-May.	**No potential.** The Project Area does not contain rocky sites to support this species.	No further actions are recommended for this species.
Franciscan manzanita *Arctostaphylos franciscana*	FE, Rank 1B.1	coastal scrub. Elevation ranges from 195 to 985 feet (60 to 300 meters). Blooms Feb-Apr.	**No potential.** The Project Area does not contain coastal scrub habitat to support this species.	No further actions are recommended for this species.
Presidio manzanita *Arctostaphylos montana* ssp. *ravenii*	FE, SE, Rank 1B.1	chaparral, coastal prairie, coastal scrub. Elevation ranges from 150 to 705 feet (45 to 215 meters). Blooms Feb-Mar.	**No potential**. The Project Area does not contain chaparral, coastal prairie, or coastal scrub habitat to support this species.	No further actions are recommended for this species.
pallid manzanita *Arctostaphylos pallida*	FT, SE, Rank 1B.1	broadleafed upland forest, chaparral, cismontane woodland, closed-cone coniferous forest, coastal scrub. Elevation ranges from 605 to 1525 feet (185 to 465 meters). Blooms Dec-Mar.	**No potential.** The Project Area does not contain uplifted marine terraces on siliceous shale or thin chert to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
marsh sandwort *Arenaria paludicola*	FE, SE, Rank 1B.1	marshes and swamps. Elevation ranges from 10 to 560 feet (3 to 170 meters). Blooms May-Aug.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
Carlotta Hall's lace fern *Aspidotis carlotta-halliae*	Rank 4.2	chaparral, cismontane woodland. Elevation ranges from 330 to 4595 feet (100 to 1400 meters). Blooms Jan-Dec.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. Furthermore, the Project Area does not contain serpentine slopes, crevices, or outcrops, with which this species is generally associated.	No further actions are recommended for this species.
ocean bluff milk-vetch *Astragalus nuttallii* var. *nuttallii*	Rank 4.2	coastal bluff scrub, coastal dunes. Elevation ranges from 10 to 395 feet (3 to 120 meters). Blooms Jan-Nov.	**No potential.** The Project Area does not contain coastal bluff scrub or coastal dune habitat to support this species.	No further actions are recommended for this species.
alkali milk-vetch *Astragalus tener* var. *tener*	Rank 1B.2	playas, valley and foothill grassland, vernal pools. Elevation ranges from 5 to 195 feet (1 to 60 meters). Blooms Mar-Jun.	**No potential.** The Project Area does not contain playa, grassland, or vernal pool habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
big tarplant *Blepharizonia plumosa*	Rank 1B.1	valley and foothill grassland. Elevation ranges from 100 to 1655 feet (30 to 505 meters). Blooms Jul-Oct.	**No potential.** The Project Area does not contain grassland habitat to support this species.	No further actions are recommended for this species.
serpentine reed grass *Calamagrostis ophitidis*	Rank 4.3	chaparral, lower montane coniferous forest, meadows and seeps, valley and foothill grassland. Elevation ranges from 295 to 3495 feet (90 to 1065 meters). Blooms Apr-Jul.	**No potential.** The Project Area does not contain chaparral, lower montane coniferous forest, meadow, seep, or grassland habitat to support this species.	No further actions are recommended for this species.
Mt. Diablo fairy-lantern *Calochortus pulchellus*	Rank 1B.2	chaparral, cismontane woodland, riparian woodland, valley and foothill grassland. Elevation ranges from 100 to 2755 feet (30 to 840 meters). Blooms Apr-Jun.	**No potential.** The range of this species is currently restricted to Mount Diablo.	No further actions are recommended for this species.
Tiburon mariposa-lily *Calochortus tiburonensis*	FT, ST, Rank 1B.1	valley and foothill grassland. Elevation ranges from 165 to 490 feet (50 to 150 meters). Blooms Mar-Jun.	**No potential.** The Project Area does not contain grassland habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Oakland star-tulip *Calochortus umbellatus*	Rank 4.2	broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland. Elevation ranges from 330 to 2295 feet (100 to 700 meters). Blooms Mar-May.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrence of this species is from 1900, located in the San Pablo Hills approximately 3 miles west of the Project Area.	No further actions are recommended for this species.
coastal bluff morning-glory *Calystegia purpurata* ssp. *saxicola*	Rank 1B.2	coastal bluff scrub, coastal dunes, coastal scrub, north coast coniferous forest. Elevation ranges from 0 to 345 feet (0 to 105 meters). Blooms (Mar)Apr-Sep.	**No potential.** The Project Area does not contain coastal bluff scrub, coastal dune, coastal scrub, or north coast coniferous habitat to support this species.	No further actions are recommended for this species.
bristly sedge *Carex comosa*	Rank 2B.1	coastal prairie, marshes and swamps, valley and foothill grassland. Elevation ranges from 0 to 2050 feet (0 to 625 meters). Blooms May-Sep.	**No potential.** The Project Area does not contain coastal prairie, marsh, swamp, or grassland habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
northern meadow sedge *Carex praticola*	Rank 2B.2	meadows and seeps. Elevation ranges from 0 to 10500 feet (0 to 3200 meters). Blooms May-Jul.	**No potential.** The Project Area does not contain meadows or seeps to support this species.	No further actions are recommended for this species.
Tiburon paintbrush *Castilleja affinis* var. *neglecta*	FE, ST, Rank 1B.2	valley and foothill grassland. Elevation ranges from 195 to 1310 feet (60 to 400 meters). Blooms Apr-Jun.	**No potential.** The Project Area does not contain grassland habitat to support this species.	No further actions are recommended for this species.
johnny-nip *Castilleja ambigua* var. *ambigua*	Rank 4.2	coastal bluff scrub, coastal prairie, coastal scrub, marshes and swamps, valley and foothill grassland, vernal pools. Elevation ranges from 0 to 1425 feet (0 to 435 meters). Blooms Mar-Aug.	**No potential**. The Project Area does not contain coastal bluff scrub, coastal prairie, coastal scrub, marsh, swamp, grassland, or vernal pool habitat to support this species.	No further actions are recommended for this species.
Congdon's tarplant *Centromadia parryi* ssp. *congdonii*	Rank 1B.1	valley and foothill grassland. Elevation ranges from 0 to 755 feet (0 to 230 meters). Blooms May-Oct(Nov).	**No potential.** The Project Area does not contain grassland habitat to support this species.	No further actions are recommended for this species.
Point Reyes salty bird's-beak *Chloropyron maritimum* ssp. *palustre*	Rank 1B.2	marshes and swamps. Elevation ranges from 0 to 35 feet (0 to 10 meters). Blooms Jun-Oct.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
soft salty bird's-beak *Chloropyron molle* ssp. *molle*	FE, SR, Rank 1B.2	marshes and swamps. Elevation ranges from 0 to 10 feet (0 to 3 meters). Blooms Jun-Nov.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
San Francisco Bay spineflower *Chorizanthe cuspidata* var. *cuspidata*	Rank 1B.2	coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub. Elevation ranges from 10 to 705 feet (3 to 215 meters). Blooms Apr-Jul(Aug).	**No potential.** The Project Area does not contain coastal bluff scrub, coastal dune, coastal prairie, or coastal scrub habitat to support this species.	No further actions are recommended for this species.
robust spineflower *Chorizanthe robusta* var. *robusta*	FE, Rank 1B.1	chaparral, cismontane woodland, coastal dunes, coastal scrub. Elevation ranges from 10 to 985 feet (3 to 300 meters). Blooms Apr-Sep.	**No potential.** The Project Area does not contain sandy terraces, bluffs, or loose sand to support this species.	No further actions are recommended for this species.
Bolander's water-hemlock *Cicuta maculata* var. *bolanderi*	Rank 2B.1	marshes and swamps. Elevation ranges from 0 to 655 feet (0 to 200 meters). Blooms Jul-Sep.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Franciscan thistle *Cirsium andrewsii*	Rank 1B.2	broadleafed upland forest, coastal bluff scrub, coastal prairie, coastal scrub. Elevation ranges from 0 to 490 feet (0 to 150 meters). Blooms Mar-Jul.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. Furthermore, the Project Area does not contain serpentine slopes, crevices, or outcrops, with which this species is generally associated. The nearest documented occurrences of this species are located in San Francisco, and are separated from the Project Area by the San Francisco Bay.	No further actions are recommended for this species.
Mt. Tamalpais thistle *Cirsium hydrophilum* var. *vaseyi*	Rank 1B.2	broadleafed upland forest, chaparral, meadows and seeps. Elevation ranges from 785 to 2035 feet (240 to 620 meters). Blooms May-Aug.	**No potential.** The Project Area does not contain serpentine streams or seeps to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Santa Clara red ribbons *Clarkia concinna* ssp. *automixa*	Rank 4.3	chaparral, cismontane woodland. Elevation ranges from 295 to 4920 feet (90 to 1500 meters). Blooms (Apr)May-Jun(Jul).	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. There are no documented occurrences of this species within 20 miles of the Project Area.	No further actions are recommended for this species.
Presidio clarkia *Clarkia franciscana*	FE, SE, Rank 1B.1	coastal scrub, valley and foothill grassland. Elevation ranges from 80 to 1100 feet (25 to 335 meters). Blooms May-Jul.	**No potential.** The Project Area does not contain coastal scrub or grassland habitat to support this species.	No further actions are recommended for this species.
round-headed Chinese-houses *Collinsia corymbosa*	Rank 1B.2	coastal dunes. Elevation ranges from 0 to 65 feet (0 to 20 meters). Blooms Apr-Jun.	**No potential.** The Project Area does not contain coastal dune habitat to support this species.	No further actions are recommended for this species.
San Francisco collinsia *Collinsia multicolor*	Rank 1B.2	closed-cone coniferous forest, coastal scrub. Elevation ranges from 100 to 900 feet (30 to 275 meters). Blooms (Feb)Mar-May.	**No potential.** The Project Area does not contain closed-cone coniferous forest or coastal scrub habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
serpentine collomia *Collomia diversifolia*	Rank 4.3	chaparral, cismontane woodland. Elevation ranges from 655 to 1970 feet (200 to 600 meters). Blooms May-Jun.	**No potential.** The Project Area does not contain ultramafic rocky or gravelly soils to support this species.	No further actions are recommended for this species.
western leatherwood *Dirca occidentalis*	Rank 1B.2	broadleafed upland forest, chaparral, cismontane woodland, closed-cone coniferous forest, north coast coniferous forest, riparian forest, riparian woodland. Elevation ranges from 80 to 1395 feet (25 to 425 meters). Blooms Jan-Mar(Apr).	**No potential.** The Project Area does not contain brushy slopes or mesic sites to support this species.	No further actions are recommended for this species.
small spikerush *Eleocharis parvula*	Rank 4.3	marshes and swamps. Elevation ranges from 5 to 9910 feet (1 to 3020 meters). Blooms (Apr)Jun-Aug(Sep).	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
marsh horsetail *Equisetum palustre*	Rank 3	marshes and swamps. Elevation ranges from 150 to 3280 feet (45 to 1000 meters). Blooms Unk.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Tiburon buckwheat *Eriogonum luteolum* var. *caninum*	Rank 1B.2	chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Elevation ranges from 0 to 2295 feet (0 to 700 meters). Blooms May-Sep.	**No potential.** The Project Area does not contain serpentine soils, or sandy to gravelly substrates, to support this species.	No further actions are recommended for this species.
Jepson's coyote-thistle *Eryngium jepsonii*	Rank 1B.2	valley and foothill grassland, vernal pools. Elevation ranges from 10 to 985 feet (3 to 300 meters). Blooms Apr-Aug.	**No potential.** The Project Area does not contain grassland or vernal pool habitat to support this species.	No further actions are recommended for this species.
San Francisco wallflower *Erysimum franciscanum*	Rank 4.2	chaparral, coastal dunes, coastal scrub, valley and foothill grassland. Elevation ranges from 0 to 1805 feet (0 to 550 meters). Blooms Mar-Jun.	**No potential.** The Project Area does not contain chaparral, coastal dune, coastal scrub, or grassland habitat to support this species.	No further actions are recommended for this species.
cut-leaved monkeyflower *Erythranthe laciniata*	Rank 4.3	chaparral, lower montane coniferous forest, upper montane coniferous forest. Elevation ranges from 1610 to 8695 feet (490 to 2650 meters). Blooms Apr-Jul.	**No potential.** The Project Area does not contain chaparral or coniferous forest habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
bare monkeyflower *Erythranthe nudata*	Rank 4.3	chaparral, cismontane woodland. Elevation ranges from 655 to 2295 feet (200 to 700 meters). Blooms May-Jun.	**No potential.** The Project Area does not contain moist soils or serpentine seeps to support this species.	No further actions are recommended for this species.
San Joaquin spearscale *Extriplex joaquinana*	Rank 1B.2	chenopod scrub, meadows and seeps, playas, valley and foothill grassland. Elevation ranges from 5 to 2740 feet (1 to 835 meters). Blooms Apr-Oct.	**No potential.** The Project Area does not contain chenopod scrub, meadow, seep, playa, or grassland habitat to support this species.	No further actions are recommended for this species.
minute pocket moss *Fissidens pauperculus*	Rank 1B.2	north coast coniferous forest. Elevation ranges from 35 to 3360 feet (10 to 1024 meters).	**No potential.** The Project Area does not contain north coast coniferous forest habitat to support this species.	No further actions are recommended for this species.
fragrant fritillary *Fritillaria liliacea*	Rank 1B.2	cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland. Elevation ranges from 10 to 1345 feet (3 to 410 meters). Blooms Feb-Apr.	**No potential**. The Project Area does not contain clay or serpentine soils to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
blue coast gilia *Gilia capitata* ssp. *chamissonis*	Rank 1B.1	coastal dunes, coastal scrub. Elevation ranges from 5 to 655 feet (2 to 200 meters). Blooms Apr-Jul.	**No potential.** The Project Area does not contain coastal dune or coastal scrub habitat to support this species.	No further actions are recommended for this species.
dark-eyed gilia *Gilia millefoliata*	Rank 1B.2	coastal dunes. Elevation ranges from 5 to 100 feet (2 to 30 meters). Blooms Apr-Jul.	**No potential.** The Project Area does not contain coastal dune habitat to support this species.	No further actions are recommended for this species.
San Francisco gumplant Grindelia hirsutula var. maritima	Rank 3.2	coastal bluff scrub, coastal scrub, valley and foothill grassland. Elevation ranges from 50 to 1310 feet (15 to 400 meters). Blooms Jun-Sep.	**No potential.** The Project Area does not contain coastal bluff scrub, coastal scrub, or grassland habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Diablo helianthella *Helianthella castanea*	Rank 1B.2	broadleafed upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland. Elevation ranges from 195 to 4265 feet (60 to 1300 meters). Blooms Mar-Jun.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. There are multiple documented occurrences of this species within a 5 mile radius of the Project Area in naturally-occurring woodlands; the nearest documented occurrence is approximately 2 miles west of the Project Area in Pinole Valley Park.	No further actions are recommended for this species.
congested-headed hayfield tarplant *Hemizonia congesta* ssp. *congesta*	Rank 1B.2	valley and foothill grassland. Elevation ranges from 65 to 1835 feet (20 to 560 meters). Blooms Apr-Nov.	**No potential.** The Project Area does not contain grassland habitat to support this species.	No further actions are recommended for this species.
hogwallow starfish *Hesperevax caulescens*	Rank 4.2	valley and foothill grassland, vernal pools. Elevation ranges from 0 to 1655 feet (0 to 505 meters). Blooms Mar-Jun.	**No potential.** The Project Area does not contain grassland or vernal pool habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Marin western flax *Hesperolinon congestum*	FT, ST, Rank 1B.1	chaparral, valley and foothill grassland. Elevation ranges from 15 to 1215 feet (5 to 370 meters). Blooms Apr-Jul.	**No potential.** The Project Area does not contain chaparral or grassland habitat to support this species.	No further actions are recommended for this species.
water star-grass *Heteranthera dubia*	Rank 2B.2	marshes and swamps. Elevation ranges from 100 to 4905 feet (30 to 1495 meters). Blooms Jul-Oct.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
Loma Prieta hoita *Hoita strobilina*	Rank 1B.1	chaparral, cismontane woodland, riparian woodland. Elevation ranges from 100 to 2820 feet (30 to 860 meters). Blooms May-Jul(Aug-Oct).	**No potential.** The Project Area does not contain serpentine or mesic soils to support this species.	No further actions are recommended for this species.
Santa Cruz tarplant *Holocarpha macradenia*	FT, SE, Rank 1B.1	coastal prairie, coastal scrub, valley and foothill grassland. Elevation ranges from 35 to 720 feet (10 to 220 meters). Blooms Jun-Oct.	**No potential.** The Project Area does not contain coastal prairie, coastal scrub, or grassland habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Kellogg's horkelia *Horkelia cuneata* var. *sericea*	Rank 1B.1	chaparral, closed-cone coniferous forest, coastal dunes, coastal scrub. Elevation ranges from 35 to 655 feet (10 to 200 meters). Blooms Apr-Sep.	**No potential.** The Project Area does not contain chaparral, closed-cone coniferous forest, coastal dune, or coastal scrub habitat to support this species.	No further actions are recommended for this species.
harlequin lotus *Hosackia gracilis*	Rank 4.2	broadleafed upland forest, cismontane woodland, closed-cone coniferous forest, coastal bluff scrub, coastal prairie, coastal scrub, marshes and swamps, meadows and seeps, north coast coniferous forest, valley and foothill grassland. Elevation ranges from 0 to 2295 feet (0 to 700 meters). Blooms Mar-Jul.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrences of this species are located in Marin County, and are separated from the Project Area by the San Francisco Bay.	No further actions are recommended for this species.
island rock lichen *Hypogymnia schizidiata*	Rank 1B.3	chaparral, closed-cone coniferous forest. Elevation ranges from 1180 to 1330 feet (360 to 405 meters).	**No potential.** The Project Area does not contain chaparral or closed-cone coniferous forest to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
coast iris *Iris longipetala*	Rank 4.2	coastal prairie, lower montane coniferous forest, meadows and seeps. Elevation ranges from 0 to 1970 feet (0 to 600 meters). Blooms Mar-May(Jun).	**No potential.** The Project Area does not contain coastal prairie, lower montane coniferous forest, meadow, or seep habitat to support this species.	No further actions are recommended for this species.
Carquinez goldenbush *Isocoma arguta*	Rank 1B.1	valley and foothill grassland. Elevation ranges from 5 to 65 feet (1 to 20 meters). Blooms Aug-Dec.	**No potential.** The Project Area does not contain grassland habitat to support this species.	No further actions are recommended for this species.
Southern California black walnut *Juglans californica*	Rank 4.2	chaparral, cismontane woodland, coastal scrub, riparian woodland. Elevation ranges from 165 to 2955 feet (50 to 900 meters). Blooms Mar-Aug.	**No potential.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat, and therefore does not contain naturally-occurring stands of Southern California black walnut.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Contra Costa goldfields *Lasthenia conjugens*	FE, Rank 1B.1	cismontane woodland, playas, valley and foothill grassland, vernal pools. Elevation ranges from 0 to 1540 feet (0 to 470 meters). Blooms Mar-Jun.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. Furthermore, vegetated portions of the Project Area are steeply sloped and do not contain swales or depressions to support this species. A dense layer of leaf litter and non-native annual grasses in woodland portions of the Project Area also make it unsuitable for this species.	No further actions are recommended for this species.
Delta tule pea *Lathyrus jepsonii* var. *jepsonii*	Rank 1B.2	marshes and swamps. Elevation ranges from 0 to 15 feet (0 to 5 meters). Blooms May-Jul(Aug-Sep).	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
beach layia *Layia carnosa*	FE, SE, Rank 1B.1	coastal dunes, coastal scrub. Elevation ranges from 0 to 195 feet (0 to 60 meters). Blooms Mar-Jul.	**No potential.** The Project Area does not contain coastal dune or coastal scrub habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
bristly leptosiphon *Leptosiphon acicularis*	Rank 4.2	chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Elevation ranges from 180 to 4920 feet (55 to 1500 meters). Blooms Apr-Jul.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrences of this species are located in San Francisco, and are separated from the Project Area by the San Francisco Bay.	No further actions are recommended for this species.
large-flowered leptosiphon *Leptosiphon grandiflorus*	Rank 4.2	cismontane woodland, closed-cone coniferous forest, coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub, valley and foothill grassland. Elevation ranges from 15 to 4005 feet (5 to 1220 meters). Blooms Apr-Aug.	**No potential.** The Project Area does not contain open, grassy flats or sandy soils to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
broad-lobed leptosiphon *Leptosiphon latisectus*	Rank 4.3	broadleafed upland forest, cismontane woodland. Elevation ranges from 560 to 4920 feet (170 to 1500 meters). Blooms Apr-Jun.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrences of this species are located in Marin County, and are separated from the Project Area by the San Francisco Bay.	No further actions are recommended for this species.
rose leptosiphon *Leptosiphon rosaceus*	Rank 1B.1	coastal bluff scrub. Elevation ranges from 0 to 330 feet (0 to 100 meters). Blooms Apr-Jul.	**No potential.** The Project Area does not contain coastal bluff scrub habitat to support this species.	No further actions are recommended for this species.
San Francisco lessingia *Lessingia germanorum*	FE, SE, Rank 1B.1	coastal scrub. Elevation ranges from 80 to 360 feet (25 to 110 meters). Blooms (Jun)Jul-Nov.	**No potential.** The Project Area does not contain coastal scrub habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
woolly-headed lessingia *Lessingia hololeuca*	Rank 3	broadleafed upland forest, coastal scrub, lower montane coniferous forest, valley and foothill grassland. Elevation ranges from 50 to 1000 feet (15 to 305 meters). Blooms Jun-Oct.	**No potential.** The Project Area does not contain clay or serpentine soils to support this species.	No further actions are recommended for this species.
Mason's lilaeopsis *Lilaeopsis masonii*	SR, Rank 1B.1	marshes and swamps, riparian scrub. Elevation ranges from 0 to 35 feet (0 to 10 meters). Blooms Apr-Nov.	**No potential.** The Project Area does not contain marsh, swamp, or riparian scrub habitat to support this species.	No further actions are recommended for this species.
Oregon meconella *Meconella oregana*	Rank 1B.1	coastal prairie, coastal scrub. Elevation ranges from 820 to 2035 feet (250 to 620 meters). Blooms Mar-Apr.	**No potential.** The Project Area does not contain coastal prairie or coastal scrub habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Mt. Diablo cottonweed *Micropus amphibolus*	Rank 3.2	broadleafed upland forest, chaparral, cismontane woodland, valley and foothill grassland. Elevation ranges from 150 to 2705 feet (45 to 825 meters). Blooms Mar-May.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. A dense layer of leaf litter and non-native annual grasses in woodland portions of the Project Area also make it unsuitable for this species.	No further actions are recommended for this species.
marsh microseris *Microseris paludosa*	Rank 1B.2	cismontane woodland, closed-cone coniferous forest, coastal scrub, valley and foothill grassland. Elevation ranges from 15 to 1165 feet (5 to 355 meters). Blooms Apr-Jun(Jul).	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrences of this species are located in San Francisco, and are separated from the Project Area by the San Francisco Bay.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
woodland woollythreads *Monolopia gracilens*	Rank 1B.2	broadleafed upland forest, chaparral, cismontane woodland, north coast coniferous forest, valley and foothill grassland. Elevation ranges from 330 to 3935 feet (100 to 1200 meters). Blooms (Feb)Mar-Jul.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The Project Area also does not contain sandy to rocky soil, with which this species is typically associated.	No further actions are recommended for this species.
white-rayed pentachaeta *Pentachaeta bellidiflora*	FE, SE, Rank 1B.1	cismontane woodland, valley and foothill grassland. Elevation ranges from 115 to 2035 feet (35 to 620 meters). Blooms Mar-May.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The Project Area also does not contain rocky or serpentine substrates, with which this species is typically associated.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Michael's rein orchid *Piperia michaelii*	Rank 4.2	chaparral, cismontane woodland, closed-cone coniferous forest, coastal bluff scrub, coastal scrub, lower montane coniferous forest. Elevation ranges from 10 to 3000 feet (3 to 915 meters). Blooms Apr-Aug.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The nearest documented occurrences of this species are at Mount Diablo, approximately 20 miles east of the Project Area.	No further actions are recommended for this species.
Choris' popcornflower *Plagiobothrys chorisianus* var. *chorisianus*	Rank 1B.2	chaparral, coastal prairie, coastal scrub. Elevation ranges from 10 to 525 feet (3 to 160 meters). Blooms Mar-Jun.	**No potential.** The Project Area does not contain chaparral, coastal prairie, or coastal scrub habitat to support this species.	No further actions are recommended for this species.
San Francisco popcornflower *Plagiobothrys diffusus*	SE, Rank 1B.1	coastal prairie, valley and foothill grassland. Elevation ranges from 195 to 1180 feet (60 to 360 meters). Blooms Mar-Jun.	**No potential.** The Project Area does not contain coastal prairie or grassland habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
hairless popcornflower *Plagiobothrys glaber*	Rank 1A	marshes and swamps, meadows and seeps. Elevation ranges from 50 to 590 feet (15 to 180 meters). Blooms Mar-May.	**No potential.** The Project Area does not contain marsh, swamp, meadow, or seep habitat to support this species.	No further actions are recommended for this species.
Oregon polemonium *Polemonium carneum*	Rank 2B.2	coastal prairie, coastal scrub, lower montane coniferous forest. Elevation ranges from 0 to 6005 feet (0 to 1830 meters). Blooms Apr-Sep.	**No potential.** The Project Area does not contain coastal prairie, coastal scrub, or lower montaine coniferous forest habitat to support this species.	No further actions are recommended for this species.
Marin knotweed *Polygonum marinense*	Rank 3.1	marshes and swamps. Elevation ranges from 0 to 35 feet (0 to 10 meters). Blooms (Apr)May-Aug(Oct).	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
Lobb's aquatic buttercup *Ranunculus lobbii*	Rank 4.2	cismontane woodland, north coast coniferous forest, valley and foothill grassland, vernal pools. Elevation ranges from 50 to 1540 feet (15 to 470 meters). Blooms Feb-May.	**No potential.** The Project Area does not contain mesic sites to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
adobe sanicle *Sanicula maritima*	SR, Rank 1B.1	chaparral, coastal prairie, meadows and seeps, valley and foothill grassland. Elevation ranges from 100 to 785 feet (30 to 240 meters). Blooms Feb-May.	**No potential.** The Project Area does not contain chaparral, coastal prairie, meadow, seep, or grassland habitat to support this species.	No further actions are recommended for this species.
chaparral ragwort *Senecio aphanactis*	Rank 2B.2	chaparral, cismontane woodland, coastal scrub. Elevation ranges from 50 to 2625 feet (15 to 800 meters). Blooms Jan-Apr(May).	**No potential.** The Project Area does not contain drying alkaline flats to support this species.	No further actions are recommended for this species.
San Francisco campion *Silene verecunda* ssp. *verecunda*	Rank 1B.2	chaparral, coastal bluff scrub, coastal prairie, coastal scrub, valley and foothill grassland. Elevation ranges from 100 to 2115 feet (30 to 645 meters). Blooms (Feb)Mar-Jul(Aug).	**No potential.** The Project Area does not contain chaparral, coastal bluff scrub, coastal prairie, coastal scrub, or grassland habitat to support this species.	No further actions are recommended for this species.
long-styled sand-spurrey *Spergularia macrotheca* var. *longistyla*	Rank 1B.2	marshes and swamps, meadows and seeps. Elevation ranges from 0 to 835 feet (0 to 255 meters). Blooms Feb-May.	**No potential.** The Project Area does not contain marsh, swamp, meadow, or seep habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Santa Cruz microseris *Stebbinsoseris decipiens*	Rank 1B.2	broadleafed upland forest, chaparral, closed-cone coniferous forest, coastal prairie, coastal scrub, valley and foothill grassland. Elevation ranges from 35 to 1640 feet (10 to 500 meters). Blooms Apr-May.	**No potential.** The Project Area does not contain sandstone, shale, or serpentine-derived soils on seaward slopes.	No further actions are recommended for this species.
most beautiful jewelflower *Streptanthus albidus* ssp. *peramoenus*	Rank 1B.2	chaparral, cismontane woodland, valley and foothill grassland. Elevation ranges from 310 to 3280 feet (95 to 1000 meters). Blooms (Mar)Apr-Sep(Oct).	**No potential.** The Project Area does not contain serpentine outcrops to support this species.	No further actions are recommended for this species.
Tiburon jewelflower *Streptanthus glandulosus* ssp. *niger*	FE, SE, Rank 1B.1	valley and foothill grassland. Elevation ranges from 100 to 490 feet (30 to 150 meters). Blooms May-Jun.	**No potential.** The Project Area does not contain rocky serpentine slopes to support this species.	No further actions are recommended for this species.
northern slender pondweed *Stuckenia filiformis* ssp. *alpina*	Rank 2B.2	marshes and swamps. Elevation ranges from 985 to 7055 feet (300 to 2150 meters). Blooms May-Jul.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
California seablite *Suaeda californica*	FE, Rank 1B.1	marshes and swamps. Elevation ranges from 0 to 50 feet (0 to 15 meters). Blooms Jul-Oct.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
Suisun Marsh aster *Symphyotrichum lentum*	Rank 1B.2	marshes and swamps. Elevation ranges from 0 to 10 feet (0 to 3 meters). Blooms (Apr)May-Nov.	**No potential.** The Project Area does not contain marsh or swamp habitat to support this species.	No further actions are recommended for this species.
two-fork clover *Trifolium amoenum*	FE, Rank 1B.1	coastal bluff scrub, valley and foothill grassland. Elevation ranges from 15 to 1360 feet (5 to 415 meters). Blooms Apr-Jun.	**No potential.** The Project Area does not contain coastal bluff scrub or grassland habitat to support this species.	No further actions are recommended for this species.
saline clover *Trifolium hydrophilum*	Rank 1B.2	marshes and swamps, valley and foothill grassland, vernal pools. Elevation ranges from 0 to 985 feet (0 to 300 meters). Blooms Apr-Jun.	**No potential.** The Project Area does not have marsh, swamp, grassland, or vernal pool habitat to support this species.	No further actions are recommended for this species.
San Francisco owl's-clover *Triphysaria floribunda*	Rank 1B.2	coastal prairie, coastal scrub, valley and foothill grassland. Elevation ranges from 35 to 525 feet (10 to 160 meters). Blooms Apr-Jun.	**No potential.** The Project Area does not contain coastal prairie, coastal scrub, or grassland habitat to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
coastal triquetrella *Triquetrella californica*	Rank 1B.2	coastal bluff scrub, coastal scrub. Elevation ranges from 35 to 330 feet (10 to 100 meters).	**No potential.** The Project Area does not contain coastal bluff scrub or coastal scrub to habitat to support this species.	No further actions are recommended for this species.
oval-leaved viburnum *Viburnum ellipticum*	Rank 2B.3	chaparral, cismontane woodland, lower montane coniferous forest. Elevation ranges from 705 to 4595 feet (215 to 1400 meters). Blooms May-Jun.	**Unlikely.** Woodland habitat within the Project Area was converted within the past 50 years from grassland habitat. Due to the highly disturbed nature of the Project Area and surrounding urban landscape, this species is not likely to have colonized woodland within the Project Area. The Project Area is below the elevation range for this species.	No further actions are recommended for this species.
WILDLIFE				
Mammals				
Alameda Island mole *Scapanus latimanus parvus*	SSC	Only known from Alameda Island. Found in a variety of habitats, especially annual and perennial grasslands. Prefers moist, friable soils. Avoids flooded soils.	**No Potential.** The Project Area is outside of the known range of this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Suisun shrew *Sorex ornatus sinuosus*	SSC	Tidal marshes of the northern shores of San Pablo and Suisun Bays. Require dense low-lying cover and driftweed and other litter above the mean hightide line for nesting and foraging.	**No Potential.** No salt marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.
salt-marsh wandering shrew *Sorex vagrans halicoetes*	SSC	Salt marshes of the south arm of San Francisco Bay. Medium high marsh 6 to 8 feet above sea level where abundant driftwood is scattered among *Salicornia*.	**No Potential.** The Project Area is outside of the known range of this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
pallid bat *Antrozous pallidus*	SSC, WBWG High	Found in a variety of habitats ranging from grasslands to mixed forests, favoring open and dry, rocky areas. Roost sites include crevices in rock outcrops and cliffs, caves, mines, and also hollow trees and various manmade structures such as bridges, barns, and buildings (including occupied buildings). Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	**Unlikely.** The sparse coniferous trees within the Project Area do not provide typical bat roost habitat given lack of thermoregulation and roosting substrate. Baseline levels of anthropogenic disturbance are generally high.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Townsend's big-eared bat *Corynorhinus townsendii*	SSC, WBWG High	Associated with a wide variety of habitats from deserts to higher-elevation mixed and coniferous forests. Females form maternity colonies in buildings, caves and mines, and males roost singly or in small groups. Foraging typically occurs at edge habitats near wooded areas, e.g. along streams.	**Unlikely.** The sparse coniferous trees within the Project Area do not provide typical bat roost habitat given lack of thermoregulation and roosting substrate. Baseline levels of anthropogenic disturbance are generally high.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
western red bat *Lasiurus blossevillii*	SSC, WBWG High	Highly migratory and typically solitary, roosting primarily in the foliage of trees or shrubs. Roosts are usually in broad-leaved trees including cottonwoods, sycamores, alders, and maples. Day roosts are commonly in edge habitats adjacent to streams or open fields, in orchards, and sometimes in urban areas.	**Unlikely.** The sparse coniferous trees within the Project Area do not provide typical bat roost habitat given lack of thermoregulation and roosting substrate. Baseline levels of anthropogenic disturbance are generally high.	No further actions are recommended for this species.
hoary bat *Lasiurus cinereus*	WBWG Medium	Prefers open forested habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Feeds primarily on moths.	**Unlikely.** The sparse coniferous trees within the Project Area do not provide typical bat roost habitat given lack of thermoregulation and roosting substrate. Baseline levels of anthropogenic disturbance are generally high.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
big free-tailed bat *Nyctinomops macrotis*	SSC, WBWG med-high	Occurs rarely in low-lying arid areas. Requires high cliffs or rocky outcrops for roosting sites.	**Unlikely.** The sparse coniferous trees within the Project Area do not provide typical bat roost habitat given lack of thermoregulation and roosting substrate. Baseline levels of anthropogenic disturbance are generally high.	No further actions are recommended for this species.
San Pablo vole *Microtus californicus sanpabloensis*	SSC	Saltmarshes of San Pablo Creek, on the south shore of San Pablo Bay. Constructs burrow in soft soil. Feeds on grasses, sedges and herbs. Forms a network of runways leading from the burrow.	**No Potential.** No salt marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.
San Francisco dusky-footed woodrat *Neotoma fuscipes annectens*	SSC	Forest habitats of moderate canopy and moderate to dense understory. Also in chaparral habitats. Constructs nests of shredded grass, leaves, and other material. May be limited by availability of nest-building materials.	**Unlikely.** No densely vegetated understory is present within the Project Area that could provide a nesting location for this species. This species could possibly occur adjacent to the Project Area, but would not be impacted by Project activities.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
salt-marsh harvest mouse *Reithrodontomys raviventris*	FE, SE, CFP	Endemic to emergent salt and brackish wetlands of the San Francisco Bay Estuary. Pickleweed marshes are primary habitat; also occurs in various other wetland communities with dense vegetation. Does not burrow, builds loosely organized nests. Requires higher areas for flood escape.	**No Potential.** No salt marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Point Reyes jumping mouse *Zapus trinotatus orarius*	SSC	Restricted to Point Reyes Peninsula in western Marin County. Occurs in wet, marshy coastal meadows and humus-filled dark soils of coast redwood forests, also thickets of woody vegetation along streams and seeps. Eats mainly grass seeds with some insects and fruit taken. Builds grassy nests on ground under vegetation, burrows in winter.	**No Potential.** The Project Area is outside of the known range of this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
southern sea otter *Enhydra lutris nereis*	FT, CFP, MMC SSC	Nearshore marine environments from about Año Nuevo, San Mateo County. To Point Sal, Santa Barbara County. Needs canopies of giant kelp and bull kelp for rafting and feeding. Prefers rocky substrates with abundant invertebrates.	**No Potential.** No marine habitats or potential haul-out areas are present within the Project Area or immediate vicinity.	No further actions are recommended for this species.
American badger *Taxidea taxus*	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Requires friable soils and open, uncultivated ground. Preys on burrowing rodents.	**Unlikely**. Soils within the Project Area are highly compacted, and unlikely to be suitable for burrowing.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Steller (=Northern) sea lion *Eumetopias jubatus*	FD, MMC SSC	Breeds on Año Nuevo, San Miguel and Farallon islands, Point Saint George, and Sugarloaf. Hauls-out on islands and rocks. Needs haul-out and breeding sites with unrestricted access to water, near aquatic food supply and with no human disturbance.	**No Potential.** No marine habitats or potential haul-out areas are present within the Project Area or immediate vicinity.	No further actions are recommended for this species.
Birds				
double-crested cormorant *Phalacrocorax auritus*	none (breeding sites protected by CDFW)	(Rookery site) colonial nester on coastal cliffs, offshore islands, and along lake margins in the interior of the state. Nests along coast on sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins.	**No Potential.** No potential foraging habitats or areas where a nesting colony could be established are present within the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
great egret *Ardea alba*	none (breeding sites protected by CDFW)	Year-round resident. Nests colonially or semi-colonially, usually in trees, occasionally on the ground or elevated platforms. Breeding sites usually in close proximity to foraging areas: marshes, lake margins, tidal flats, and rivers. Forages primarily on fishes and other aquatic prey, also smaller terrestrial vertebrates.	**No Potential.** No potential foraging habitats or areas where a nesting colony could be established are present within the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
great blue heron *Ardea herodias*	none (breeding sites protected by CDFW)	Year-round resident. Nests colonially or semi-colonially in tall trees and on cliffs, also sequested terrestrial substrates. Breeding sites usually in close proximity to foraging areas: marshes, lake margins, tidal flats, and rivers. Forages primarily on fishes and other aquatic prey, also smaller terrestrial vertebrates.	**No Potential.** No potential foraging habitats or areas where a nesting colony could be established are present within the Project Area.	No further actions are recommended for this species.
snowy egret *Egretta thula*	none (breeding sites protected by CDFW)	Year-round resident. Nests colonially, usually in trees, at times in sequestered beds of dense tules. Rookery sites usually situated close to foraging areas: marshes, tidal-flats, streams, wet meadows, and borders of lakes.	**No Potential.** No potential foraging habitats or areas where a nesting colony could be established are present within the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
black-crowned night heron *Nycticorax nycticorax*	none (breeding sites protected by CDFW)	Year-round resident. Nests colonially, usually in trees but also in patches of emergent vegetation. Rookery sites are often on islands and usually located adjacent to foraging areas: margins of lakes and bays.	**No Potential.** No potential foraging habitats or areas where a nesting colony could be established are present within the Project Area.	No further actions are recommended for this species.
northern harrier *Circus hudsonius (cyaneus)*	SSC	Year-round resident and winter visitor. Found in open habitats including grasslands, prairies, marshes and agricultural areas. Nests on the ground in dense vegetation, typically near water or otherwise moist areas. Preys on small vertebrates.	**Unlikely.** No marsh habitats or suitable locations for ground nesting are present within the Project Area. May occasionally be observed roosting or flying over the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
white-tailed kite *Elanus leucurus*	CFP	Year-round resident in coastal and valley lowlands with scattered trees and large shrubs, including grasslands, marshes and agricultural areas. Nests in trees, of which the type and setting are highly variable. Preys on small mammals and other vertebrates.	**Moderate Potential.** Some taller trees within the Project Area could support nesting by this species. Foraging is unlikely within the Project Area, but could occur in nearby open spaces.	
bald eagle *Haliaeetus leucocephalus*	FD, SE, CFP, BGEPA	Occurs year-round in California, but primarily a winter visitor; breeding population is growing. Nests in large trees in the vicinity of larger lakes, reservoirs and rivers. Wintering habitat somewhat more variable but usually features large concentrations of waterfowl or fish.	**Unlikely.** The Project Area does not support typical nesting habitat of this species. May occasionally be observed roosting or flying over the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
golden eagle *Aquila chrysaetos*	CFP, BGEPA	Occurs year-round in rolling foothills, mountain areas, sage-juniper flats, and deserts. Cliff-walled canyons provide nesting habitat in most parts of range; also nests in large trees, usually within otherwise open areas.	**Unlikely.** No suitable nesting substrates for this species are present within the Project Area. May occasionally be observed flying over.	No further actions are recommended for this species.
American peregrine falcon *Falco peregrinus anatum*	FD, SD, CFP	Year-round resident and winter visitor. Occurs in a wide variety of habitats, though often associated with coasts, bays, marshes and other bodies of water. Nests on protected cliffs and also on man-made structures including buildings and bridges. Preys on birds, especially waterbirds. Forages widely.	**Unlikely.** No suitable nesting substrates for this species are present within the Project Area. May occasionally be observed flying over.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
yellow rail *Coturnicops noveboracensis*	SSC	Summer resident in eastern Sierra Nevada in Mono County, breeding in shallow freshwater marshes and wet meadows with dense vegetation. Also a rare winter visitor along the coast and other portions of the state. Extremely cryptic.	**No Potential.** The Project Area is outside of the known range of this species.	No further actions are recommended for this species.
California black rail *Laterallus jamaicensis coturniculus*	ST, CFP	Year-round resident in marshes (saline to freshwater) with dense vegetation within four inches of the ground. Prefers larger, undisturbed marshes that have an extensive upper zone and are close to a major water source. Extremely secretive and cryptic.	**No Potential.** No marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
California Ridgway's (clapper) rail *Rallus obsoletus obsoletus*	FE, SE, CFP	Year-round resident in tidal marshes of the San Francisco Bay estuary. Requires tidal sloughs and intertidal mud flats for foraging, and dense marsh vegetation for nesting and cover. Typical habitat features abundant growth of cordgrass and pickleweed. Feeds primarily on molluscs and crustaceans.	**No Potential.** No salt marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
California least tern *Sternula antillarum browni*	FE, SE, CFP	Summer resident along the coast from San Francisco Bay south to northern Baja California; inland breeding also very rarely occurs. Nests colonially on barren or sparsely vegetated areas with sandy or gravelly substrates near water, including beaches, islands, and gravel bars. In San Francisco Bay, has also nested on salt pond margins.	**No Potential.** No sandy beaches or similar habitats are present within the Project Area for nesting by this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
short-eared owl *Asio flammeus*	SSC	Occurs year-round, but primarily as a winter visitor; breeding very restricted in most of California. Found in open, treeless areas (e.g., marshes, grasslands) with elevated sites for foraging perches and dense herbaceous vegetation for roosting and nesting. Preys mostly on small mammals, particularly voles.	**Unlikely.** The Project Area is outside of the known breeding range of this species. May occasionally be present roosting or during dispersal movements.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
burrowing owl *Athene cunicularia*	SSC	Year-round resident and winter visitor. Occurs in open, dry grasslands and scrub habitats with low-growing vegetation, perches and abundant mammal burrows. Preys upon insects and small vertebrates. Nests and roosts in old mammal burrows, most commonly those of ground squirrels.	**No Potential.** No ground squirrel activity or burrow surrogate structures were observed within the Project Area. The slope of the Project Area in portions that are not hardscaped is additionally greater than what is considered ideal for burrowing owl occupation.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
bank swallow *Riparia riparia*	ST	Summer resident in riparian and other lowland habitats near rivers, lakes and the ocean in northern California. Nests colonially in excavated burrows on vertical cliffs and bank cuts (natural and manmade) with fine-textured soils. Historical nesting range in southern and central areas of California has been eliminated by habitat loss. Currently known to breed in Siskiyou, Shasta, and Lassen Cos., portions of the north coast, and along Sacramento River from Shasta Co. south to Yolo Co.	**No Potential.** No vertical cliffs or bank cuts are present within the Project Area to support nesting by this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
San Francisco common yellowthroat *Geothlypis trichas sinuosa*	SSC	Resident of the San Francisco Bay region, in fresh and salt water marshes. Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	**No Potential.** No salt marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.
Suisun song sparrow *Melospiza melodia maxillaris*	SSC	Year-round resident of brackish-water marshes along Suisun Bay. Inhabits cattails, tules, bulrushes and other emergent vegetation, including pickleweed. Nests typically placed in shrubs.	**No Potential.** No marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.
Alameda song sparrow *Melospiza melodia pusillula*	SSC	Year-round resident of salt marshes bordering the south arm of San Francisco Bay. Inhabits primarily pickleweed marshes; nests placed in marsh vegetation, typically shrubs such as gumplant.	**No Potential.** The Project Area is outside of the known range of this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Samuels (San Pablo) song sparrow *Melospiza melodia samuelis*	SSC	Year-round resident of tidal marshes along the north side of San Francisco and San Pablo Bays. Typical habitat is dominated by pickleweed, with gumplant and other shrubs present in the upper zone for nesting. May forage in areas adjacent to marshes.	**No Potential.** No salt marsh habitats are present in the immediate vicinity of the Project Area to support this species.	No further actions are recommended for this species.
tricolored blackbird *Agelaius tricolor*	ST, SSC, RP	Nearly endemic to California, where it is most numerous in the Central Valley and vicinity. Highly colonial, nesting in dense aggregations over or near freshwater in emergent growth or riparian thickets. Also uses flooded agricultural fields. Abundant insect prey near breeding areas essential.	**No Potential.** No large stands of emergent vegetation or other suitable habitats are present in the vicinity of the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
yellow-headed blackbird *Xanthocephalus xanthocephalus*	SSC	Summer resident. Breeds colonially in freshwater emergent wetlands with dense vegetation and deep water, often along borders of lakes or ponds. Requires abundant large insects such as dragonflies; nesting is timed for maximum emergence of insect prey.	**No Potential.** No large stands of emergent vegetation or other suitable habitats are present in the vicinity of the Project Area to support this species.	No further actions are recommended for this species.
western snowy plover *Charadrius nivosus (alexandrines) nivosus*	FT, SSC, RP	Federal listing applies only to the Pacific coastal population. Year-round resident and winter visitor. Occurs on sandy beaches, salt pond levees, and the shores of large alkali lakes. Nests on the ground, requiring sandy, gravelly or friable soils.	**No Potential.** No sandy beaches or similar habitats are present within the Project Area for nesting or foraging by this species.	No further actions are recommended for this species.
Reptiles and Amphibians				

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
California giant salamander *Dicamptodon ensatus*	SSC	Occurs in the north-central Coast Ranges. Moist coniferous and mixed forests are typical habitat; also uses woodland and chaparral. Adults are terrestrial and fossorial, breeding in cold, permanent or semi-permanent streams. Larvae usually remain aquatic for over a year.	**No Potential.** The Project Area is outside of the known range of this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
California tiger salamander *Ambystoma californiense*	FE/FT, ST, RP	Populations in Santa Barbara and Sonoma counties currently listed as endangered; threatened in remainder of range. Inhabits grassland, oak woodland, ruderal and seasonal pool habitats. Adults are fossorial and utilize mammal burrows and other subterranean refugia. Breeding occurs primarily in vernal pools and other seasonal water features.	**No Potential.** The Project Area is outside of the known range of this species. The occurrence listed in CNDDB is classified as "extirpated".	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
California red-legged frog *Rana draytonii*	FT, SSC, RP	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11 to 20 weeks of permanent water for larval development. Associated with quiet perennial to intermittent ponds, stream pools and wetlands. Prefers shorelines with extensive vegetation. Disperses through upland habitats after rains.	**Unlikely.** CRLF are unlikely to traverse the Project Area given that the Project Area is surrounded by dense residential and commercial development. No aquatic habitats with hydroperiod sufficient to support metamorphosis are present within the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
foothill yellow-legged frog *Rana boylii*	SC, SSC	Found in or adjacent to rocky streams in a variety of habitats. Prefers partly-shaded, shallow streams and riffles with a rocky substrate; requires at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis. Feeds on both aquatic and terrestrial invertebrates.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Pacific (western) pond turtle *Actinemys marmorata*	SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation. Require basking sites such as partially submerged logs, vegetation mats, or open mud banks, and suitable upland habitat (sandy banks or grassy open fields) for egg-laying.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.
Alameda whipsnake *Masticophis lateralis euryxanthus*	FT, ST	Inhabits chaparral and foothill-hardwood habitats in the eastern Bay Area. Prefers south-facing slopes and ravines with rock outcroppings where shrubs form a vegetative mosaic with oak trees and grasses and small mammal burrows provide basking and refuge.	**Unlikely.** Although this species is documented in nearby open spaces, the Project Area is separated from known populations by significant barriers to dispersal. Additionally, typical habitat (e.g., rocky outcrops) are present within the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Fishes				
Delta smelt *Hypomesus transpacificus*	FT, SE, RP	Lives in the Sacramento-San Joaquin estuary in areas where salt and freshwater systems meet. Occurs seasonally in Suisun Bay, Carquinez Strait and San Pablo Bay. Seldom found at salinities > 10 ppt; most often at salinities < 2 ppt.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.
longfin smelt *Spirinchus thaleichthys*	FC, ST, SSC, RP	Euryhaline, nektonic and anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15 to 30 ppt, but can be found in completely freshwater to almost pure seawater.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
eulachon – Southern DPS *Thaleichthys pacificus*	FT, SSC	Found in Klamath River, Mad River, Redwood Creek and in small numbers in Smith River and Humboldt Bay tributaries. Spawn in lower reaches of coastal rivers with moderate water velocities and bottom of pea-sized gravel, sand and woody debris.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Sacramento splittail *Pogonichthys macrolepidotus*	SSC, RP	Formerly endemic to the lakes and rivers of the Central Valley, but now confined to the Sacramento Delta, Suisun Bay and associated marshes. Occurs in slow-moving river sections and dead-end sloughs. Requires flooded vegetation for spawning and foraging for young. A freshwater species, but tolerant of moderate salinity (10-18 parts per thousand).	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Sacramento perch *Archoplites interruptus*	SSC, RP	(Only within native range) Historically found in the sloughs, slow-moving rivers, and lakes of the Central Valley. Prefer warm water. Aquatic vegetation is essential for young. Tolerate wide range of physio-chemical water conditions.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.
tidewater goby *Eucyclogobius newberryi*	FE, SSC	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County to the mouth of the Smith River. Found in shallow lagoons and lower stream reaches; requires fairly still but not stagnant water and high oxygen levels.	**No Potential.** No perennial aquatic habitat is present within the Project Area to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Invertebrates				
monarch butterfly *Danaus plexippus*	none (winter roost sites protected by CDFW)	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, Monterey cypress), with nectar and water sources nearby.	**Unlikely**. The Project Area is not a known overwintering site for this species. Although the Project Area contains a stand of trees on a wooded slope, trees are not of the preferred species (eucalyptus, Monterey pine, or Monterey cypress), are spaced too far apart, and occur in a relatively narrow band of canopy cover. Therefore, trees within the Project Area are unlikely to provide the proper amount of protection from low temperatures, precipitation, and and wind that are preferred by this species. The nearest known overwintering site is at Point Pinole, approximately 3 miles east of the Project Area.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Bay checkerspot butterfly *Euphydryas editha bayensis*	FT, RP	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay. *Plantago erecta* is the primary host plant; *Orthocarpus densiflorus* and *O. purpurscens* are the secondary host plants.	**No potential.** The Project Area does not contain serpentine soils or host plant to support this species.	No further actions are recommended for this species.
Mission blue butterfly *Icaricia icarioides missionensis*	FE, RP	Inhabits grasslands and coastal chaparral of the San Francisco peninsula and southern Marin County, but mostly found on San Bruno Mountain. Three larval host plants: *Lupinus albifrons*, *L. variicolor*, and *L. formosus*, of which *L. albifrons* is favored.	**No potential.** This species is known from the San Francisco peninsula and Marin County, and is not known to occur in the East Bay. The Project Area does not contain grasslands, coastal chaparral, or host plants to support this species.	No further actions are recommended for this species.

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Callippe silverspot butterfly *Speyeria callippe callippe*	FE	Two populations in San Bruno mountain and the Cordelia Hills are recognized. Hostplant is Viola pedunculata, which is found on serpentine soils. Most adults found on east-facing slopes; males congregate on hilltops in search of females.	**No potential.** The Project Area does not contain grassland habitat or host plants suitable to support this species.	No further actions are recommended for this species.

***Key to status codes:**

FE	Federal Endangered
BGEPA	Bald and Golden Eagle Protection Act Species
FT	Federal Threatened
FD	Federal Delisted
SE	State Endangered
CFP	State Fully Protected Animal
MMC SSC	NMFS Marine Mammal Commission Species of Special Concern
RP	Recovery Plan
SD	State Delisted
SR	State Rare
SSC	State Species of Special Concern
ST	State Threatened
Rank 1A	CNPS Rank 1A: Plants presumed extinct in California
Rank 1B	CNPS Rank 1B: Plants rare, threatened or endangered in California and elsewhere
Rank 2A	CNPS Rank 2A: Plants presumed extirpated in California, but more common elsewhere
Rank 2B	CNPS Rank 2B: Plants rare, threatened, or endangered in California, but more common elsewhere
Rank 3	CNPS Rank 3: Plants about which CNPS needs more information (a review list)
Rank 4	CNPS Rank 4: Plants of limited distribution (a watch list)

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE PROJECT AREA	RESULTS AND RECOMMENDATIONS
Potential to Occur: No Potential. Habitat on and adjacent to the site is clearly unsuitable for the species requirements (cover, substrate, elevation, hydrology, plant community, site history, disturbance regime). Unlikely. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found on the site. Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. The species has a moderate probability of being found on the site. High Potential. All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site. **Results and Recommendations:** Present. Species was observed on the site or has been recorded (i.e. CNDDB, other reports) on the site recently. Assumed Present. Species is assumed to be present on-site based on the presence of key habitat components. Assumed Present without Impact. Species assumed present; however, project activities will not have an impact on the species. Presumed Absent. Species is presumed to not be present due to a lack of key habitat components. Not Observed. Species was not observed during dedicated/formal surveys. Not Present. Species is considered not present due to a clear lack of any suitable habitat and/or local range limitations.				

ENVIRONMENTAL CONSULTANTS

MEMORANDUM

To:	Richard Schoebel, Retail Opportunity Investments Corp (ROIC)	**From:**	Yingying Cai, Project Manager Carla Angulo, Arborist
cc:	Chris Cole, Metrovation		
Date:	June 14, 2022		
Subject:	Tree Survey Report with Tree Preservation Plan for ROIC Pinole Vista Residential Development Project, Pinole, Contra Costa County, California (WRA Project #31272)		

Overview

This memorandum summarizes the methods and results of an arborist survey performed on September 14, 2021 at the site of the proposed Retail Opportunity Investments Corp. (ROIC) Pinole Vista Residential Development Project (Project), located at 1500 Fitzgerald Drive in the City of Pinole, Contra Costa County, California (Project Area). The survey was conducted by ISA-Certified Arborist, Carla Angulo (ISA #WE-13573A), for the purpose of identifying and documenting the presence of all trees greater than or equal to four (4) inches diameter at breast height (DBH; measured at 4.5 feet above ground level), including "protected trees", as defined by Chapter 17 Article 5 "Resource Conservation" of the City of Pinole Municipal Code, within the Project Area.

The majority of the Project Area consists of developed and landscaped areas. Developed/landscaped areas within the Project Area include a paved parking lot, a department store, a loading dock, and narrow strips of ornamental plantings of trees and shrubs. Approximately 0.81 acre of coast live oak woodland occurs along the southern boundary of the Project Area on a steep slope between the parking lot and a residential development. The Project Area is surrounded by roads, parking lots, and retail stores to the north, east, and west. The southern border of the Project Area is adjacent to a residential development. The Project will demolish the existing vacant retail structure and construct a new housing development with 223 units as well as relandscape the parking lot and courtyards surrounding the development, except the 0.8-acre oak woodland in the southern boundary based on the Pinole Mixed-Use Planning Submittal (Trachtenberg Architects 2021).

Regulatory Background

Chapter 17.96 "Tree Removal" of the Pinole Municipal Code (Tree Ordinance) regulates the alteration and/or removal of certain trees on private and City-owned or controlled properties within the city limits. A tree permit is required for the removal or alteration of any "protected tree" on any private parcel or removal of one (1) or more trees on any undeveloped private parcel in the city. For any "protected tree" that is within a development site and needs removal a public hearing before the planning commission, and special findings are required.

A “protected tree” is defined in Chapter 17.98 (Glossary of Terms) as: “select [native] trees with a single perennial stem: (1) of 12 inches or larger in circumference [4+ inches in diameter] measured at 4.5 feet above the natural grade; or (2) any other [non-native] tree with a single perennial stem greater than 56 inches or larges in circumference [18+ inches in diameter) measured at 4.5 feet above the natural grade.” Select native trees include coast live oak (*Quercus agrifolia*), madrone (*Arbutus menziesii*), California buckeye (*Aesculus californica*), black walnut (*Juglans hindsii*), coast redwood (*Sequoia sempervirens*), big leafed maple (*Acer macrophyllum*), redbud (*Cercis occidentalis*), California bay (*Umbellularia californica*), and Toyon (*Heteromeles arbutifolia*).

Specific trees excluded from protection are nut or fruit trees, palm trees or eucalyptus trees, and any native tree less than four inches or non-native less than 18 inches at 4.5 feet above grade level. If pruning of a “protected tree” is necessary for the enhancement of the structural strength and health, then a certified/consulting arborist must perform the work or the owner of the tree who is following a plan created by the certified/consulting arborist.

Methods

On September 14, 2021, the Project Area was traversed on foot to inventory all trees greater than or equal to 4 inches DBH, as specified per the Pinole Tree Ordinance. WRA ISA-Certified Arborist Carla Angulo surveyed the area and recorded relevant tree information for each surveyed tree including species, DBH, health, condition and structure ratings.

Locations of trees within the Project Area were recorded using a handheld GPS unit with sub-meter accuracy. Circumference was calculated for all surveyed trees by measuring the trunk diameter at 4.5 feet above grade or DBH and multiplying by 3.14. Diameter for multi-trunked trees was calculated by measuring each individual trunk and calculating the sum total of trunk diameters. In cases where an irregular buttress or bulge, or trunk union occurred at 4.5 feet above ground, measurements were taken above the irregular feature in order to best represent the size of the tree.

General notes on the condition of trees were taken, including health, structure, and overall condition. Assessment of the health, structure, and overall condition of each tree was conducted according to the narratives listed in Table 1.

Table 1. Rating Narratives for Tree Assessment

Health	
Good	Tree is free from symptoms of disease and stress.
Fair	Tree shows some symptoms of disease or stress including twig and small branch dieback, evidence of fungal / parasitic infection, thinning of crown, or poor leaf color.
Poor	Tree shows symptoms of severe decline.
Structure	
Good	Tree is free from major structural defects.
Fair	Tree shows some structural defects in branches, but overall structure is stable.
Poor	Tree shows structural failure of a major branch or co-dominant trunk.
General Condition	
Good	Tree shows condition of foliage, bark, and overall structure characteristic of the species and lacking obvious defect, or disease.
Fair	Tree shows condition of foliage, bark, and overall structure characteristic of the species with some evidence of stress, defect, or disease.
Poor	Tree shows condition of foliage, bark, and overall structure uncharacteristic of the species with obvious evidence of stress, defect, or disease.

Results

A total of 83 trees were identified within the Project Area, including 25 trees large enough and/or of select native tree species to be considered protected trees per the Tree Ordinance, and 58 trees that are non-protected trees per the ordinance. A complete list of all trees surveyed is presented in Attachment A. A map showing the location of surveyed trees is provided in Attachment B. Representative photographs are provided in Attachment C.

Protected trees within the Project Area were composed of four (4) native tree species (two [2] "select [native] tree species" specifically protected per the Tree Ordinance). The select native trees include coast redwood and coast live oak and the native trees not mentioned in the Tree Ordinance are arroyo willow (*Salix lasiolepis*) and red willow (*Salix laevigata*). The non-native protected trees are Italian stone pine (*Pinus pinea*) and Aleppo pine (*Pinus halepensis)*. Other trees present in the Project Area are Bradford pear (*Pyrus calleryana*), crape myrtle (*Lagerstroemia indica*), silver birch (*Betula pendula)*, blue gum eucalyptus (*Eucalyptus globulus*), and multi-trunk trees including the aforementioned. The largest single-trunk protected native tree is a coast redwood (Tree #280; 20.2 inches DBH) and the largest protected non-native tree is an Italian stone pine (Tree #225; 28.85 inches DBH).

Observed maladies and defects affecting trees within the Project Area included codominant trunks with included bark, epicormics sprouts indicative of stress, poorly pruned trees (e.g., "thinning" to raise the canopy), trunk wounds with bleeding sap, felled and dead branches attached to trunk (hangers), and moderate to significant crown dieback. One (1) protected coast live oak (#250) has symptoms of Sudden

Oak Death (SOD) and has oozing cankers. However, this tree is not part of the proposed development site per the proposed plans (Trachtenberg Architects 2021).

The observed maladies and considerations of severity, along with species characteristics guided the assignment of the structural condition, health, and overall condition score for each tree. The overall condition and health of inventoried trees was found to be generally good. However, structural condition was found to be generally fair. Table 2 below summarizes the assessment results of all inventoried trees in the Project Area.

Table 2. Tree Assessment Results Summary

Criteria Assessed/Rating	Condition	Health	Structure
Good	47 (57%)	50 (60%)	35 (42%)
Fair	29 (35%)	29 (35%)	40 (48%)
Poor	7 (8%)	4 (5%)	8 (10%)

As per Chapter 17.96, "Tree Removal" of the Pinole Municipal Code, a tree permit is required for the removal of one (1) or more protected trees on any undeveloped, vacant property or land under development that requires a building permit in the city. Per the demolition plans and the results of the tree survey, a total of 36 trees are within the limit of grade, five (5) protected coast live oaks and 31 non-native trees including three (3) protected Italian Stone pines and all require removal (Trachtenberg Architects 2021). None of these trees have any visible issues with their structure or their health, however, they all will be heavily impacted by the construction work within the Project Area and there is no alternative schematic for the development to avoid the impacts. No coast live oaks that are planned for removal have signs of SOD, however, they should be removed last, and the measures listed in the tree preservation plan shall be followed, to reduce the transmission of any spores.

Of all 36 trees planned for removal five (5) coast live oaks and three (3) protected non-native Italian Stone pines need a permit to be removed, a total of eight (8) trees. The five (5) coast live oaks are on the southwestern corner of the Project Area along the existing retaining wall and on the toe of slope below the drainage channel. The three (3) pines are located adjacent to the sidewalk and adjacent to a storm drain and may require encroachment permits under Chapter 17.12 "Administrative Use Permit".

Tree Preservation Plan

The Project will preserve the existing trees in the southern portion of the Project Area above to the south of the existing limit of pavement. Preservation of those trees will maintain a natural vegetation barrier between the redevelopment and the existing residential neighborhood to the south. In order to preserve the trees which are not to be removed or impacted by the construction activities, this Tree Preservation Plan (Plan) recommends measures and several methods to reduce potential impacts before, during and after construction. These practices will utilize multiple tree protection measures, i.e., restricted ground disturbance work within tree driplines and/or Tree Protection Zones, implement pruning best practices, reduce relative compaction rates, avoid unnecessary soil disturbance, and adopt a tree health monitoring plan.

Pre-Construction Awareness Training and Tree Protection Zone

The contractor and all its subcontractors shall be briefed by the Project Foreman or Project Arborist on the contents of this Plan and adhere to all tree protection recommendations within this Tree Preservation Plan.

As the trees to be preserved are all located to the south of the existing edge of pavement, a temporary tree protection fence shall be installed at the edge of pavement on the southern portion of the Project Area. The tree protection fence shall be marked with signage identifying the area as a Tree Protection Zone (TPZ). Extreme caution shall be taken to avoid mechanical injury to tree trunks, scaffold branches and root flares when operating along the edge of the TPZ.

Demolition and Material Storage

Structure and concrete removal along the edge of the TPZ shall be conducted in the least injurious method possible. Concrete to be removed along the southern edge of the existing pavement shall be moved away from existing trees to be preserved to avoid incidental contact with preserved trees. Use of heavy machinery, excavation, fill, grading, trenching, drainage changes or other soil disturbance activities shall be limited within the TPZ. Material storage, vehicle parking, and trash disposal shall not occur within the TPZ.

Heavy machinery access through TPZ areas is not planned and shall not be allowed to the maximum extent feasible. Construction materials and heavy machinery shall be properly staged away from existing preserved trees to avoid spillage or damage to trees. If temporary equipment access is required then prior to final grading, a six-inch layer of clean bark shall be placed in those areas requiring access.

Site Grading, Trenching and Root Pruning

No grading or trenching is anticipated within the TPZ. However, if concrete removal or other construction activities occur along the edge of the TPZ, such work shall be limited to the minimum extent necessary to achieve desired construction specifications. If roots of preserved trees are uncovered during demolition or construction activities, any roots greater than 2-inch diameter shall be pruned, as opposed to indiscriminately cut with heavy machinery. All roots encountered greater than 2-inch diameter shall be cleanly cut perpendicular to the axis using a sharp handsaw. Never rip or tear roots - clean cuts will encourage root regeneration. Trenching within the TPZ shall be avoided; if any trenching is required within the TPZ, the Project Arborist shall be informed and a determination shall be made whether potential impacts to trees can be mitigated, or not. If underground utilities are identified within the TPZ, they should be removed by hand, or capped and abandoned in place rather than trenched, to avoid root disturbance.

Tree and Brush Removal from Site

Trees requiring removal shall be felled away from preserved trees. Brush and wood chips generated from tree removals may be used on-site. However, brush and wood chips generated from trees in poor condition should not be used within TPZs to prevent the spread of pathogens.

Arborist Supervision and Pruning Specifications

No pruning of preserved trees shall be permitted unless approved by a Certified Arborist. Pruning of any existing preserved trees shall be performed by a licensed tree care professional and shall comply with the ANSI A300 standards and International Society of Arboriculture (ISA) Best Management Practices for Tree Pruning. All tree pruning tools must be cleaned prior to and after use. All branches being removed shall be cut to, but not beyond, the branch collar. All pruning shall be done in a way that maintains the balance and structure of the tree. Additional specific pruning prescriptions may be recommended prior to construction, as determined by a Certified Arborist.

Monitoring and Tree Damage Mitigation

TPZ fence installation shall be confirmed by the Project Arborist prior to site demolition and construction. This can be confirmed via email with photograph attachments in lieu of a site visit. Any trees designated for preservation damaged during construction shall be reported to the Project Arborist immediately, and the Project Arborist shall conduct a site visit to assess the damage and recommend potential mitigation.

Summary and Recommendations

A total of 83 trees were identified within the Project Area, 25 protected trees and 58 non-protected trees. Thirty-six (36) are within the development site and will need to be removed, therefore preserving 47 trees. Of the 36 trees planned for removal there are eight (8) trees that require city tree removal permits, five (5) coast live oaks and three (3) Italian Stone pines. Tree #250 may decline and die within five (5) years; however, the tree is in the woodland hillslope portion of the Project Area where no development will occur and is away from the public thus removal is not required. Three (3) of the four (4) silver birch are having minor to major dieback, and some are hollow, removal for public safety is recommended, they are included in the demolition plans.

Following the guidelines of the tree preservation plan above will allow for trees which are planned to be preserved to have impacts from construction activities to be less than significant.

A complete list of all trees surveyed within the Project Area is presented in Attachment A. A figure displaying the locations of all protected trees is presented in Attachment B. Representative photographs are provided in Attachment C.

Please feel free to contact me by email at carla.angulo@wra-ca.com, or project manager, Yingying Cai at yingying.cai@wra-ca.com, if you have any questions or concerns.

Attachments

Attachment A – Tree Survey Table
Attachment B—Tree Survey Results
Attachment C – Representative Photographs

References

ANSI 2017	ANSI A300 Pruning Standard - Part 1. 2017. American National Standard for Tree Care Operations - Tree, Shrub, and Other Woody Plant Management – Standard Practices (Pruning). 33 pp.
Fite and Smiley 2008	Fite, K. and E.T. Smiley. 2008. Managing Trees During Construction: Best Management Practices. Companion publication to the ANSI A300 Part 5: Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Management of Trees and Shrubs During Site Development, and Construction). International Society of Arboriculture, P.O. Box 3129, Champaign, IL.
Trachtenberg Architects 2021	Trachtenberg Architects. 2021. Pinole Mixed Use Demolition Plans. 1500 Fitzgerald Drive. Pinole, California. APN 125-551-016. Sheet C1.1. Job 20313.

Attachment A
Tree Survey Table

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Attachment A. Tree Table - Pinole, California, September 2021

Tag ID	Common Name	Scientific Name	Multistem	DBH_1	DBH_2	DBH_3	DBH_4	DBH_5	Total DBH	Condition	General Health	Structure	Select Natives	Protected	Removal vs. Preserve	Health Notes	Comment
201	Crape Myrtle	*Lagerstroemia indica*	no	7.24	0.00	0.00	0.00	0.00	7.24	Good	Good	Good	No	No	Removal		healthy LAIN
202	Crape Myrtle	*Lagerstroemia indica*	no	8.84	0.00	0.00	0.00	0.00	8.84	Good	Good	Good	No	No	Removal		not county protected; LAIN
203	Crape Myrtle	*Lagerstroemia indica*	no	10.00	0.00	0.00	0.00	0.00	10.00	Good	Good	Fair	No	No	Removal		on planter, root growth restricted
204	Silver Birch	*Betula pendula*	yes	5.50	4.50	0.00	0.00	0.00	10.00	Good	Good	Fair	No	No	Removal		BEPE; in planter restricted roots
205	Bradford Pear	*Pyrus calleryana*	no	7.45	0.00	0.00	0.00	0.00	7.45	Good	Good	Fair	No	No	Removal		PYCA, not county protected
206	Bradford Pear	*Pyrus calleryana*	no	9.95	0.00	0.00	0.00	0.00	9.95	Good	Good	Good	No	No	Removal		PYCA, not protected (NP), roots restricted in plan
207	Bradford Pear	*Pyrus calleryana*	no	12.75	0.00	0.00	0.00	0.00	12.75	Good	Good	Fair	No	No	Removal		PYCA in plantar NP
208	Silver Birch	*Betula pendula*	no	7.23	0.00	0.00	0.00	0.00	7.23	Good	Good	Fair	No	No	Removal		BEPE, NP, roots in planter
209	Bradford Pear	*Pyrus calleryana*	no	10.20	0.00	0.00	0.00	0.00	10.20	Good	Good	Fair	No	No	Removal		PYCA, NP, roots in planter, poor trimming
210	Bradford Pear	*Pyrus calleryana*	no	7.18	0.00	0.00	0.00	0.00	7.18	Fair	Good	Fair	No	No	Removal		PYCA, NP, roots in planter
211	Bradford Pear	*Pyrus calleryana*	no	11.55	0.00	0.00	0.00	0.00	11.55	Good	Fair	Fair	No	No	Removal		PYCA, NP, minimal response growth at cut brnch
212	Silver Dollar Gum	*Eucalyptus polyanthemos*	no	14.40	0.00	0.00	0.00	0.00	14.40	Good	Good	Fair	No	No	Removal		NP, leaning, significant root crown respons
213	Aleppo Pine	*Pinus halepensis*	no	21.40	0.00	0.00	0.00	0.00	21.40	Fair	Fair	Fair	No	Yes	Preserve		PIHA, on slope, NP
214	Aleppo Pine	*Pinus halepensis*	yes	25.30	13.10	0.00	0.00	0.00	38.40	Good	Good	Good	No	No	Preserve		PIHA, NP
215	Silver Birch	*Betula pendula*	no	5.85	0.00	0.00	0.00	0.00	5.85	Poor	Poor	Poor	No	No	Removal	major decay/dieback	BEPE, HOLLOW
216	Holly Oak	*Quercus ilex*	yes	5.70	2.55	0.00	0.00	0.00	8.25	Fair	Good	Fair	No	No	Removal		in planter, QUIL
217	Crape Myrtle	*Lagerstroemia indica*	no	4.50	0.00	0.00	0.00	0.00	4.50	Good	Good	Fair	No	No	Removal		LAIN, NP, codominant stems
218	Crape Myrtle	*Lagerstroemia indica*	no	4.30	0.00	0.00	0.00	0.00	4.30	Good	Fair	Fair	No	No	Removal		LAIN, NP, codominant stem
219	Silver Birch	*Betula pendula*	yes	5.10	6.10	7.40	0.00	0.00	18.60	Good	Good	Fair	No	No	Removal		BEPE, NP, codom trunks & stems, cavity w/ sig resp
220	Silver Birch	*Betula pendula*	yes	9.60	5.75	0.00	0.00	0.00	15.35	Good	Good	Fair	No	No	Removal		BEPE, NP, codom trunk & stems
221	Silver Birch	*Betula pendula*	no	9.40	0.00	0.00	0.00	0.00	9.40	Fair	Fair	Poor	No	No	Removal	minor decay/dieback	BEPE, large cavity at base, no response growth
222	Silver Birch	*Betula pendula*	no	4.80	0.00	0.00	0.00	0.00	4.80	Fair	Fair	Fair	No	No	Removal	cankers	BEPE, in planter
223	Crape Myrtle	*Lagerstroemia indica*	no	5.50	0.00	0.00	0.00	0.00	5.50	Good	Good	Good	No	No	Removal		LAIN
224	Crape Myrtle	*Lagerstroemia indica*	no	5.70	0.00	0.00	0.00	0.00	5.70	Fair	Good	Fair	No	No	Removal		LAIN, NP, INTERIOR DIEBACK
225	Italian Stone Pine	*Pinus pinea*	no	25.85	0.00	0.00	0.00	0.00	25.85	Good	Good	Fair	No	Yes	Removal		PIPI, NP, codominant stems
226	Italian Stone Pine	*Pinus pinea*	no	21.80	0.00	0.00	0.00	0.00	21.80	Good	Good	Good	No	Yes	Removal		PIPI, NP, exposed roots
227	Italian Stone Pine	*Pinus pinea*	no	19.80	0.00	0.00	0.00	0.00	19.80	Good	Good	Good	No	Yes	Removal		PIPI, NP
228	Bradford Pear	*Pyrus calleryana*	no	10.12	0.00	0.00	0.00	0.00	10.12	Good	Good	Good	No	No	Removal		PYCA, NP
229	Bradford Pear	*Pyrus calleryana*	no	8.00	0.00	0.00	0.00	0.00	8.00	Fair	Fair	Poor	No	No	Removal	poor grwth form/lean	PYCA, NP
230	Bradford Pear	*Pyrus calleryana*	no	13.27	0.00	0.00	0.00	0.00	13.27	Good	Good	Good	No	No	Removal		PYCA, NP
231	Bradford Pear	*Pyrus calleryana*	no	13.77	0.00	0.00	0.00	0.00	13.77	Good	Good	Good	No	No	Removal		PYCA, NP, 2 fails, lean w/ good response growth
232	Coast Live Oak	*Quercus agrifolia*	no	6.65	0.00	0.00	0.00	0.00	6.65	Good	Good	Fair	Yes	Yes	Removal		on slope
233	Coast Live Oak	*Quercus agrifolia*	no	13.25	0.00	0.00	0.00	0.00	13.25	Good	Good	Good	Yes	Yes	Removal		exposed roots
234	Coast Live Oak	*Quercus agrifolia*	no	12.80	0.00	0.00	0.00	0.00	12.80	Good	Good	Good	Yes	Yes	Removal		
235	Coast Live Oak	*Quercus agrifolia*	no	7.20	0.00	0.00	0.00	0.00	7.20	Good	Good	Good	Yes	Yes	Removal		
237	Coast Live Oak	*Quercus agrifolia*	yes	9.30	9.20	7.00	0.00	0.00	25.50	Poor	Fair	Fair	Yes	No	Preserve	SOD; suppressed	weeping sod cankers on uphill side, codoms
238	Aleppo Pine	*Pinus halepensis*	no	14.41	0.00	0.00	0.00	0.00	14.41	Fair	Fair	Fair	No	No	Preserve		PIHA
239	Blue Gum	*Eucalyptus globulus*	yes	14.80	7.50	20.90	0.00	0.00	43.20	Poor	Poor	Fair	No	No	Preserve	poor grwth form/lean; maj	included bark
240	Blue Gum	*Eucalyptus globulus*	yes	19.80	6.85	0.00	0.00	0.00	26.65	Poor	Fair	Poor	No	No	Preserve	minor decay/dieback	verticle crack
241	Blue Gum	*Eucalyptus globulus*	no	15.60	0.00	0.00	0.00	0.00	15.60	Poor	Fair	Poor	No	No	Preserve	poor grwth form/lean	verticle cracks, lost top of scaffold
242	Blue Gum	*Eucalyptus globulus*	no	11.10	0.00	0.00	0.00	0.00	11.10	Poor	Fair	Fair	No	No	Preserve	supressed	
243	Coast Live Oak	*Quercus agrifolia*	yes	6.50	3.80	0.00	0.00	0.00	10.30	Good	Fair	Good	Yes	No	Preserve		
244	Coast Live Oak	*Quercus agrifolia*	no	12.67	0.00	0.00	0.00	0.00	12.67	Good	Good	Good	Yes	Yes	Preserve		
245	Arroyo Willow	*Salix lasiolepis*	yes	9.16	7.80	3.80	0.00	0.00	20.76	Good	Good	Fair	Yes	No	Preserve		laying on slope, large breaks significant response
246	Arroyo Willow	*Salix lasiolepis*	yes	2.30	2.40	2.10	2.15	0.00	8.95	Fair	Fair	Poor	Yes	No	Removal		laying on slope
247	Canyon Live Oak	*Quercus chrysolepis*	no	4.80	0.00	0.00	0.00	0.00	4.80	Fair	Fair	Fair	No	No	Preserve		
248	Coast Live Oak	*Quercus agrifolia*	no	6.75	0.00	0.00	0.00	0.00	6.75	Good	Fair	Good	Yes	Yes	Removal		lean
249	Canyon Live Oak	*Quercus chrysolepis*	no	4.50	0.00	0.00	0.00	0.00	4.50	Good	Good	Good	No	No	Removal		
250	Coast Live Oak	*Quercus agrifolia*	no	17.10	0.00	0.00	0.00	0.00	17.10	Fair	Fair	Good	Yes	Yes	Preserve	cankers	weeping cankers
251	Coast Live Oak	*Quercus agrifolia*	yes	19.45	14.10	0.00	0.00	0.00	33.55	Good	Good	Good	Yes	No	Preserve		
252	Coast Redwood	*Sequoia sempervirens*	no	12.23	0.00	0.00	0.00	0.00	12.23	Fair	Fair	Good	Yes	Yes	Preserve		
253	Coast Live Oak	*Quercus agrifolia*	yes	9.70	5.80	0.00	0.00	0.00	15.50	Good	Good	Fair	Yes	No	Preserve		codominant trunks
254	Coast Live Oak	*Quercus agrifolia*	yes	4.70	3.10	2.00	2.10	0.00	11.90	Fair	Fair	Fair	Yes	No	Preserve		
255	Coast Live Oak	*Quercus agrifolia*	no	6.15	0.00	0.00	0.00	0.00	6.15	Good	Good	Good	Yes	Yes	Preserve		
256	Coast Live Oak	*Quercus agrifolia*	yes	9.90	3.00	1.85	0.00	0.00	14.75	Good	Good	Good	Yes	No	Preserve		
257	Coast Live Oak	*Quercus agrifolia*	no	4.70	0.00	0.00	0.00	0.00	4.70	Fair	Fair	Fair	Yes	Yes	Preserve		
258	Coast Live Oak	*Quercus agrifolia*	no	5.00	0.00	0.00	0.00	0.00	5.00	Fair	Fair	Fair	Yes	Yes	Preserve	minor decay/dieback	
259	Coast Live Oak	*Quercus agrifolia*	no	6.30	0.00	0.00	0.00	0.00	6.30	Good	Good	Good	Yes	Yes	Preserve		
260	Aleppo Pine	*Pinus halepensis*	no	19.00	0.00	0.00	0.00	0.00	19.00	Fair	Fair	Fair	No	Yes	Preserve	minor decay/dieback	PIHA, corrected lean

Tag ID	Common Name	Scientific Name	Multistem	DBH_1	DBH_2	DBH_3	DBH_4	DBH_5	Total DBH	Condition	General Health	Structure	Select Natives	Protected	Removal vs. Preserve	Health Notes	Comment
261	Coast Live Oak	*Quercus agrifolia*	yes	5.40	4.40	0.00	0.00	0.00	9.80	Good	Good	Good	Yes	No	Preserve		
262	Coast Live Oak	*Quercus agrifolia*	no	6.30	0.00	0.00	0.00	0.00	6.30	Good	Good	Good	Yes	Yes	Preserve		
263	Canyon Live Oak	*Quercus chrysolepis*	no	10.65	0.00	0.00	0.00	0.00	10.65	Good	Good	Good	No	No	Preserve		
264	Coast Live Oak	*Quercus agrifolia*	no	13.80	0.00	0.00	0.00	0.00	13.80	Good	Good	Good	Yes	Yes	Preserve		
265	Red Willow	*Salix laevigata*	no	17.75	0.00	0.00	0.00	0.00	17.75	Good	Good	Fair	No	No	Preserve		one recent failure
266	Coast Live Oak	*Quercus agrifolia*	no	10.87	0.00	0.00	0.00	0.00	10.87	Good	Good	Good	Yes	Yes	Preserve		
267	Coast Live Oak	*Quercus agrifolia*	yes	5.75	5.25	0.00	0.00	0.00	11.00	Fair	Good	Fair	Yes	No	Preserve		possible included bank
268	Coast Live Oak	*Quercus agrifolia*	yes	11.00	7.25	0.00	0.00	0.00	18.25	Fair	Fair	Fair	Yes	No	Preserve	cankers	weeping crotch
269	Coast Live Oak	*Quercus agrifolia*	no	16.25	0.00	0.00	0.00	0.00	16.25	Good	Good	Good	Yes	Yes	Preserve		
270	Coast Redwood	*Sequoia sempervirens*	yes	13.20	8.50	0.00	0.00	0.00	21.70	Fair	Good	Good	Yes	No	Preserve	supressed	
271	Aleppo Pine	*Pinus halepensis*	no	8.30	0.00	0.00	0.00	0.00	8.30	Fair	Fair	Fair	No	No	Preserve	poor grwth form/lean	PIHA
272	Aleppo Pine	*Pinus halepensis*	yes	24.54	20.40	12.45	14.20	0.00	71.59	Good	Good	Fair	No	No	Preserve		PIHA, codominant stems
273	Coast Live Oak	*Quercus agrifolia*	yes	8.65	4.65	5.98	0.00	0.00	19.28	Fair	Fair	Fair	Yes	No	Preserve	supressed	
274	Red Willow	*Salix laevigata*	yes	6.00	5.70	0.00	0.00	0.00	11.70	Poor	Poor	Poor	Yes	No	Preserve	major decay/dieback	
275	Coast Live Oak	*Quercus agrifolia*	no	12.35	0.00	0.00	0.00	0.00	12.35	Good	Good	Good	Yes	Yes	Preserve	poor grwth form/lean	
276	Red Willow	*Salix laevigata*	no	4.94	0.00	0.00	0.00	0.00	4.94	Fair	Fair	Poor	No	No	Preserve		holes at base of trunk
277	Aleppo Pine	*Pinus halepensis*	no	25.10	0.00	0.00	0.00	0.00	25.10	Fair	Fair	Fair	No	Yes	Preserve		PIHA, codominant stems
278	Aleppo Pine	*Pinus halepensis*	no	12.20	0.00	0.00	0.00	0.00	12.20	Fair	Fair	Fair	No	No	Preserve		PIHA, corrected lean
279	Coast Live Oak	*Quercus agrifolia*	yes	10.30	10.40	9.15	6.00	0.00	35.85	Fair	Fair	Good	Yes	No	Preserve		
280	Coast Redwood	*Sequoia sempervirens*	no	20.20	0.00	0.00	0.00	0.00	20.20	Good	Good	Good	Yes	Yes	Preserve		
281	Coast Live Oak	*Quercus agrifolia*	yes	11.45	13.75	10.25	0.00	0.00	35.45	Good	Good	Good	Yes	No	Preserve		
282	Coast Live Oak	*Quercus agrifolia*	yes	8.40	5.80	3.00	0.00	0.00	17.20	Fair	Poor	Fair	Yes	No	Preserve	major decay/dieback	one stem dead
283	Arroyo Willow	*Salix lasiolepis*	yes	4.85	4.70	7.40	5.55	2.80	25.30	Fair	Fair	Fair	Yes	No	Preserve		
284	Coast Live Oak	*Quercus agrifolia*	no	14.85	0.00	0.00	0.00	0.00	14.85	Good	Good	Good	Yes	Yes	Preserve		

Attachment B
Tree Survey Map

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Sources: USDA NAIP Imagery 2020, WRA | Prepared By: njander, cangulo 06/13/2022

Attachment B: Tree Survey Results

ROIC Pinole Vista
Mixed Use Project
Pinole, Contra Costa County
California

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wra ENVIRONMENTAL CONSULTANTS

Attachment C
Representative Photographs

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Photograph 1. Tree 207, a (single) trunk Bradford pear (*Pyrus calleyarna*) protected tree located in the interior portion of the Study Area.

Photograph 2. Tree #224, a (single) trunk Crape myrtle (*Lagerstroemia indica*) protected tree located in the driveway entrance planter on the northern portion of the Study Area.

Photograph 3. Trees #225 and #226, both (single) trunk Italian Stone Pines (*Pinus pinea*) protected trees located adjacent to the sidewalk and along the entrance on the northern portion of the Study Area.

Photograph 4. Tree #231, a (single) trunk Bradford Pear (*Pyrus calleryana*) protected tree, which has had two branch failures, located adjacent to sidewalk and fire hydrant on the northwest corner of the Study Area by the loading entrance.

Photograph 5. Tree #222, a (single) trunk Silver Birch (*Betula pendula*) protected tree, in fair condition due to cankers, located in a parking lot planter on the interior portion of the Study Area east of the building.

Photograph 6. Tree #284, a (single) trunk Coast Live Oak (*Quercus agrifolia*) protected tree at the toe of the slope located in the southern portion of the Study Area which will not be developed.

Photograph 7. Tree #277, a (single) trunk Bishop Pine (*Pinus muriata*) protected tree at the toe of the slope located in the southern portion of the Study Area which will not be developed.

Appendix C

Appendix C. Archaeological Survey Report, prepared by ALTA Archaeological Consulting, October 2021.

[Confidential]

Appendix D

ROCKRIDGE GEOTECHNICAL

Prepared for **Retail Opportunity Investments Corp**

GEOTECHNICAL INVESTIGATION
PROPOSED RESIDENTIAL DEVELOPMENT
1500 FITZGERALD DRIVE
PINOLE, CALIFORNIA

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April 13, 2022
Project No. 22-2171

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ROCKRIDGE GEOTECHNICAL

April 13, 2022
Project No. 22-2171

Mr. Robert Schoebel
Chief Operating Officer
Retail Opportunity Investments Corp.
11250 El Camino Real, Suite 200
San Diego, California 92130

Subject: Geotechnical Investigation
Proposed Residential Development
1500 Fitzgerald Drive
Pinole, California

Dear Mr. Schoebel,

The attached report presents the results of the geotechnical investigation performed by Rockridge Geotechnical, Inc. for the proposed residential development to be constructed at 1500 Fitzgerald Drive in Pinole, California. Our geotechnical investigation was performed in accordance with our proposal dated January 14, 2022.

The site is located on the southern side of Fitzgerald Drive, west of its intersection with Appian Way. It is relatively level and is currently occupied by a vacant one-story commercial building (previously occupied by Kmart) and adjacent driveways and paved surface parking lots. The existing commercial building is rectangular-shaped with plan dimensions of about 210 by 450 feet.

Plans are to demolish the existing building and construct a five-story residential building at-grade. The proposed building will be E-shaped with two courtyards and will have maximum plan dimensions of about 200 by 375 feet. Other site improvements include new surface parking, hardscape and landscape.

From a geotechnical standpoint, we conclude the proposed improvements are feasible provided the recommendations presented in this report are incorporated into the project plans and specifications and implemented during construction. The primary geotechnical concerns for the project are: 1) variable thickness and composition of undocumented fill underlying the site, and 2) providing adequate foundation support for the proposed building. We conclude the proposed building may be supported on a stiffened foundation system, such as interconnected continuous spread footings or a mat, provided the estimated foundation settlements are acceptable from structural standpoint.

The recommendations contained in our report are based on a limited subsurface exploration. Consequently, variations between expected and actual subsurface conditions

may be found in localized areas during construction. Therefore, we should be engaged to observe site grading and foundation installations during which time we may make changes in our recommendations, if deemed necessary.

We appreciate the opportunity to provide our services to you on this project. If you have any questions, please call.

Sincerely yours,
ROCKRIDGE GEOTECHNICAL, INC.

REGISTERED PROFESSIONAL ENGINEER
HUI JUN LIANG
GE2663
Exp. 6/30/2022
GEOTECHNICAL
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Enclosure

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ROCKRIDGE GEOTECHNICAL

GEOTECHNICAL INVESTIGATION
PROPOSED RESIDENTIAL DEVELOPMENT
1500 FITZGERALD DRIVE
Pinole, California

1.0 INTRODUCTION

This report presents the results of the geotechnical investigation performed by Rockridge Geotechnical, Inc. for the proposed residential development to be constructed at 1500 Fitzgerald Drive in Pinole, California. The site is located on the southern side of Fitzgerald Drive, west of its intersection with Appian Way, as shown on the Site Location Map, Figure 1.

The site is relatively level and is currently occupied by a vacant one-story commercial building (previously occupied by Kmart) and adjacent driveways and paved surface parking lots. The existing commercial building is rectangular-shaped with plan dimensions of about 210 by 450 feet.

Plans are to demolish the existing building and construct a five-story residential building at-grade. The proposed building will be E-shaped with two courtyards and will have maximum plan dimensions of about 200 by 375 feet, as shown on the Site Plan, Figure 2. Other proposed site improvements include new surface parking, hardscape, and landscaped areas.

2.0 SCOPE OF SERVICES

Our geotechnical investigation was performed in accordance with our proposal dated January 14, 2022. Our scope of services consisted of exploring the subsurface conditions at the site by performing cone penetration tests (CPTs), drilling test borings, performing laboratory tests on selected soil samples, and performing engineering analyses to develop conclusions and recommendations regarding:

- subsurface conditions
- site seismicity and seismic hazards, including the potential for liquefaction and lateral spreading, and total and differential settlement resulting from liquefaction and/or cyclic densification
- the most appropriate foundation type(s) for the proposed building

- design criteria for the recommended foundation type(s), including vertical and lateral capacities for each of the foundation type(s)
- estimates of foundation settlement
- site grading and excavation, including criteria for fill quality and compaction
- subgrade preparation for interior and exterior concrete slabs-on-grade
- temporary cut slopes and shoring, as appropriate
- lateral earth pressures for design of below-grade walls
- flexible and rigid pavement design
- permeable and non-permeable pavers
- 2019 California Building Code (CBC) site class and mapped spectral response acceleration parameters
- corrosivity of near-surface soil and the potential effects on buried concrete and metal structures and foundations
- construction considerations.

3.0 FIELD INVESTIGATION AND LABORATORY TESTING

Subsurface conditions at the site were investigated by performing seven CPTs, drilling two test borings, and performing laboratory testing on selected soil samples. Prior to advancing the CPTs and borings, we obtained a drilling permit from Contra Costa County Environmental Health Division (CCCEHD). We also contacted Underground Service Alert (USA) to notify them of our work, as required by law, and retained Subtronic Corporation, a private utility locator, to check for buried utilities at the boring and CPT locations to reduce the potential for encountering buried utilities during our field investigation. Details of the field exploration and laboratory testing are described below.

3.1 Cone Penetration Tests

The CPTs, designated as CPT-1 through CPT-7, were performed on February 28, 2022 by Middle Earth Geo Testing of Orange, California to provide in-situ soil data at the approximate locations shown on Figure 2. With the exception of CPT-2, which was advanced to target depth of 50 feet below the ground surface (bgs), all CPTs encountered practical refusal at depths ranging from 26 to 46 feet bgs. The CPTs were performed by hydraulically pushing a 1.7-inch-

diameter, cone-tipped probe with a projected area of 15 square centimeters into the ground using a truck-mounted 25-ton CPT rig. The cone-tipped probe measured tip resistance and the friction sleeve behind the cone tip measured frictional resistance. Electrical strain gauges within the cone continuously measured soil parameters for the entire depth advanced. Soil data, including tip resistance and frictional resistance, were recorded by computer to provide engineering information such as the types and approximate strength characteristics of the soil encountered.

The CPT logs showing tip resistance, friction ratio, pore water pressure, as well as interpreted soil behavior type are presented in Appendix A on Figures A-1 through A-7. Upon completion, the CPT holes were backfilled with neat cement grout in accordance with CCCEHD's grouting guidelines.

3.2 Test Borings

Two test borings, designated as B-1 and B-2, were drilled on March 15, 2022 by Benevent Building of Concord, California at the approximate locations shown on Figure 2. Borings B-1 and B-2 were drilled to 31.5 and 21.5 feet bgs, respectively, using a portable drill rig equipped with four-inch-diameter solid-stem flight augers. During drilling, our field geologist logged the soil encountered and obtained representative samples for visual classification and laboratory testing. The logs of the borings are presented on Figures A-8 through A-9 in Appendix A. The soil and bedrock encountered in the borings were classified in accordance with the classification charts shown on Figures A-10 and A-11.

Soil samples were obtained using the following samplers:

- Modified California (MC) split-barrel sampler with a 3.0-inch outside diameter and 2.5-inch inside diameter, lined with 2.43-inch inside diameter stainless steel or brass tubes.
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter; the sampler was designed to accommodate liners, but liners were not used.

The type of sampler used was selected based on soil type and the desired sample quality for laboratory testing. In general, the MC sampler was used to obtain samples in stiff cohesive soil

and the SPT sampler was used to evaluate the relative density of sandy soils and obtain samples of hard cohesive soils and weak bedrock.

The MC and SPT samplers were driven with a 140-pound safety hammer falling 30 inches per drop using a rope-and-cathead system. The samplers were driven up to 18 inches and the hammer blows required to drive the samplers were recorded every six inches and are presented on the boring logs. A "blow count" is defined as the number of hammer blows per six inches of penetration or 50 blows for six inches or less of penetration. The blow counts required to drive the MC and SPT samplers were converted to approximate SPT N-values using factors of 0.7 and 1.2, respectively, to account for sampler type, approximate hammer energy, and the fact that the SPT sampler could accommodate liners, but liners were not used. The blow counts used for this conversion were: 1) the last two blow counts if the sampler was driven more than 12 inches, or 2) the last blow count if the sampler was driven more than 6 inches but less than 12 inches. The converted SPT N-values are presented on the boring logs.

The borings were backfilled with neat cement grout in accordance with CCCEHD's grouting guidelines. The soil cuttings generated by the borings were placed on the ground next to each boring location.

3.3 Laboratory Testing

We re-examined the soil samples obtained from the borings to confirm the field classifications and selected representative samples for laboratory testing. Soil samples were tested by B. Hillebrandt Soils Testing, Inc. of Alamo, California to measure moisture content, dry density, Atterberg limits, and particle size distribution. Soil samples were tested by Project X Corrosion Engineering of Murrieta, California to measure corrosivity characteristics. The results of the laboratory tests are presented on the boring logs and in Appendix B.

4.0 SUBSURFACE CONDITIONS

Historic aerial maps show the site vicinity previously consisted of rolling hills with a drainage valley and ridge running beneath the site. At some time prior to 1985, the site was graded to be relatively level, presumably using soil from the top of the ridge to fill in the drainage valley.

A regional geologic map prepared by Graymer, et al. (2006), a portion of which is presented on Figure 3, indicates the site is underlain by Pliocene and early Miocene-age sedimentary rocks (Tpms). The results of our CPTs and borings indicate the site is blanketed by about 2 to 14 feet of fill, except near the northeastern portion of the site (i.e., CPT-6 and CPT-7) where the fill that was placed in the historic drainage valley appears to be thicker. The fill encountered mostly consists of very stiff to hard clay with varying sand content and medium dense to very dense silty sand. The fill is underlain by native alluvium, residual soil, or bedrock. Where explored, the native alluvium and residual soil consists of very stiff to hard clay with variable silt and sand content and dense to very dense silty/clayey sand. In CPT-7, we encountered a layer of moderately compressible, slightly overconsolidated clay between depths of about 26 and 29 feet bgs.

The top of bedrock varies from about two feet on the southern portion of the site (i.e., Boring B-2 and CPT-4) to about 30 feet on the northern portion of the site (i.e., Boring B-1) and to about 35 feet bgs on the northeastern portion of the site (i.e., CPT-6 and CPT-7). Bedrock samples obtained from borings B-1 and B-2 indicate the bedrock consists of siltstone and claystone that are soft to low hardness, friable, and moderately weathered.

4.1 Groundwater Level

Groundwater was measured in borings B-1 and B-2 at depths of 19.7 and 15.3 feet bgs just prior to grouting. Groundwater was measured in CPT-3, CPT-5, CPT-6, and CPT-7 at depths of 16, 22, 20, and 20 feet bgs, respectively, using a weighted tape just prior to grouting. Considering these measurements were taken soon after completion of drilling or advancing the CPTs, they may not represent stabilized groundwater levels.

To further evaluate the groundwater level at the site, we reviewed information on the State of California Water Resources Control Board GeoTracker website (https://geotracker.waterboards.ca.gov/). The closest site with substantial historic groundwater data on the GeoTracker website is at 2401 Appian Way, about 1,400 feet east of the site. A groundwater monitoring report prepared by Environmental Resolutions, Inc. provides quarterly

groundwater readings from four monitoring wells from November 1998 to November 1999. Groundwater levels were measured between approximately 8.7 and 21.4 feet bgs. Another site with substantial historic groundwater data on the GeoTracker website is at 1599 Tara Hills Drive, about 1,600 feet north of the site. A groundwater monitoring report prepared by Conestoga-Rovers & Associates provides semi-annual groundwater readings from several monitoring wells from April 1997 to February 2012. Groundwater levels were measured between approximately 8.6 and 39.7 feet bgs.

Based on the available groundwater level data discussed above, we conclude a design high groundwater table of eight feet bgs should be used for this project. The depth to groundwater is expected to vary several feet annually, depending on rainfall amounts.

5.0 SEISMIC CONSIDERATIONS

5.1 Regional Seismicity

The site is located in the Coast Ranges Geomorphic Province of California that is characterized by northwest-trending valleys and ridges. These topographic features are controlled by folds and faults that resulted from the collision of the Farallon North American plates and subsequent strike-slip faulting along the San Andreas Fault system. The San Andreas Fault is more than 600 miles long from Point Arena in the north to the Gulf of California in the south. The Coast Ranges Geomorphic Province is bounded on the east by the Great Valley and on the west by the Pacific Ocean.

The major active faults in the area are the Hayward, Concord, and Green Valley faults. These and other faults in the region are shown on Figure 4. Numerous damaging earthquakes have occurred along these faults in recorded time. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated characteristic moment magnitude[1] [Petersen et al. (2014) & Thompson et al. (2016)] are summarized in Table 1. These

[1] Moment magnitude (M_w) is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

references are based on the Third Uniform California Earthquake Rupture Forecast (UCERF3), prepared by Field et al. (2013).

TABLE 1
Regional Faults and Seismicity

Fault Name	Approximate Distance (km)	Direction from Site	Characteristic Moment Magnitude
Total Hayward + Rodgers Creek (RC+HN+HS+HE)	3.4	Southwest	7.58
Hayward (North, HN)	3.4	Southwest	6.90
Concord	20	East	6.45
Green Valley	20	East	6.30
West Napa	20	Northeast	6.97
Rodgers Creek - Healdsburg	23	Northwest	7.19
Mount Diablo Thrust North CFM	25	East	6.72
Hayward (South, HS)	26	Southeast	7.00
Mount Diablo Thrust	27	East	6.67
Total Calaveras (CN+CC+CS+CE)	28	Southeast	7.43
Calaveras (North, CN)	28	Southeast	6.86
Clayton	30	East	6.57
Total North San Andreas (SAO+SAN+SAP+SAS)	33	West	8.04
North San Andreas (Peninsula, SAP)	33	West	7.38
North San Andreas (North Coast, SAN)	33	West	7.52
San Gregorio (North)	35	West	7.44
Great Valley 05 (Pittsburg - Kirby Hills alt1)	35	East	6.60
Great Valley 05 (Pittsburg - Kirby Hills alt2)	39	East	6.66
Greenville (North)	40	East	6.86
Mount Diablo Thrust South	43	Southeast	6.50
Great Valley 04b (Gordon Valley)	46	Northeast	6.77
Hunting Creek (Berryessa)	48	North	6.69

Since 1800, four major earthquakes have been recorded on the North San Andreas Fault. In 1836, an earthquake with an estimated maximum intensity of VII on the Modified Mercalli (MM) scale occurred east of Monterey Bay on the San Andreas Fault (Toppozada and Borchardt 1998). The estimated moment magnitude (M_w) for this earthquake is about 6.25. In 1838, an earthquake occurred with an estimated intensity of about VIII-IX (MM), corresponding to an M_w

of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas Fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an M_w of about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The Loma Prieta Earthquake of October 17, 1989 had an M_w of 6.9 and occurred about 113 kilometers south of the site. On August 24, 2014, an earthquake with an estimated maximum intensity of VIII (severe) on the MM scale occurred on the West Napa fault. This earthquake was the largest earthquake event in the San Francisco Bay Area since the Loma Prieta Earthquake. The M_w of the 2014 South Napa Earthquake was 6.0.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward Fault. The estimated M_w for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (estimated M_w of about 6.5) was reported on the Calaveras Fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill earthquake, which corresponds to an M_w of 6.2.

As a part of the UCERF3 project, researchers estimated that the probability of at least one M_w greater than or equal to a 6.7 earthquake occurring in the greater San Francisco Bay Area during a 30-year period (starting in 2014) is 72 percent. The highest probabilities are assigned to sections of the Hayward (South), Calaveras (Central), and the North San Andreas (Santa Cruz Mountains) faults. The respective probabilities are approximately 25, 21, and 17 percent.

5.2 Geologic Hazards

Because the project site is in a seismically active region, we evaluated the potential for earthquake-induced geologic hazards including ground shaking, ground surface rupture, liquefaction,[2] lateral spreading,[3] and cyclic densification[4]. We used the results of the CPTs and borings to evaluate the potential of these phenomena occurring at the project site.

5.2.1 Ground Shaking

The seismicity of the site is governed by the activity of the Hayward Fault, although ground shaking from future earthquakes on other faults will also be felt at the site. The intensity of earthquake ground motion at the site will depend upon the characteristics of the generating fault, distance to the earthquake epicenter, and magnitude and duration of the earthquake. We judge that strong to very strong ground shaking could occur at the site during a large earthquake on one of the nearby faults.

5.2.2 Fault Rupture

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. Therefore, we conclude there is no risk of fault offset at the site from a known active fault. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting, and consequently secondary ground failure, from previously unknown faults is very low.

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[2] Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

[3] Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

[4] Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

5.2.3 Liquefaction and Associated Hazards

When a saturated, cohesionless soil liquefies, it experiences a temporary loss of shear strength created by a transient rise in excess pore pressure generated by strong ground motion. Soil susceptible to liquefaction includes saturated loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures, and sand boils are evidence of excess pore pressure generation and liquefaction.

The site is located within a mapped zone of "very low" liquefaction susceptibility on the map titled *Maps of Quaternary Deposits and Liquefaction Susceptibility in the Central San Francisco Bay Region, California, by USGS, 2006* (Figure 5). Considering the soil encountered in the CPTs and borings below the design groundwater table (eight feet bgs) and above bedrock generally consists of stiff to hard clay and dense to very dense silty/clayey sand, we judge the soil is not susceptible to liquefaction because of its cohesion and/or relatively density. However, we judge there may be localized lenses of medium dense silty sand fill beneath the groundwater table that may be susceptible to liquefaction. We estimate liquefaction-induced settlement from localized lenses of medium dense silty sand fill could be about 1/4 inch during a Maximum Considered Earthquake (MCE) event as defined by the 2019 CBC.

Ishihara (1985) presented an empirical relationship that provides criteria used to evaluate whether liquefaction-induced ground failure, such as sand boils, would be expected to occur under a given level of shaking for a liquefiable layer of given thickness overlain by a resistant, or protective, surficial layer. Our analysis indicates the non-liquefiable soil overlying the potentially liquefiable soil layer at the site is sufficiently thick and the potentially liquefiable layer are sufficiently thin and has relatively high fines content such that the potential for surface manifestations from liquefaction, such as sand boils and loss of bearing capacity for shallow foundations, is very low.

Considering the discontinuous nature of the potentially liquefiable layer, we conclude the risk of lateral spreading is nil

5.2.4 Cyclic Densification

Seismically induced compaction (also referred to as cyclic densification) of non-saturated granular soil (granular soil above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The CPTs and borings indicate the material encountered above the groundwater table is sufficiently dense and/or cohesive to resist cyclic densification. Therefore, we conclude the potential for seismically induced settlement resulting from cyclic densification is very low.

6.0 DISCUSSIONS AND CONCLUSIONS

From a geotechnical standpoint, we conclude the site can be developed as planned, provided the recommendations presented in this report are incorporated into the project plans and specifications and implemented during construction. The primary geotechnical concerns for the project are: 1) variable thickness and composition of undocumented fill underlying the site, and 2) providing adequate foundation support for the proposed building. These and other geotechnical issues as they pertain to the proposed development are discussed below.

6.1 Foundations and Settlement

The soil/bedrock underlying the site generally has moderate to high strength and relatively low compressibility; except for an area on the northeastern portion of the site, called out as "Foundation Design Zone A" (Zone A) on Figure 2, where the fill may be thicker and the native alluvium is weaker and more compressible.

We conclude the existing fill and alluvium can provide adequate foundation support for the proposed building, provided the estimated settlements are acceptable from structural standpoint. We conclude the proposed building may be supported on shallow foundations; however, considering the inherent variability of the undocumented fill thickness, composition, and compaction across the site, we judge isolated spread footings bearing on undocumented fill will be susceptible to erratic differential settlements. To reduce the potential for erratic differential settlements, we conclude the proposed building should be supported on a stiffened shallow foundation system, such as interconnected continuous spread footings or a mat.

Our settlement analyses indicate total settlement of interconnected continuous spread footings designed using the allowable bearing pressures presented in this Section 7.3 of this report will be less than 3/4 inch and differential settlement will be less than 1/2 inch over a 30-foot horizontal distance; except within Zone A. We estimate total settlement of interconnected continuous spread footings located within Zone A will be as much as about 1-1/2 inches. The differential settlement within this zone will be controlled to some degree by the stiffness/rigidity of the foundation system; however, we anticipate it can be designed to limit differential settlements to about 3/4 inch over a 30-foot horizontal distance. If the estimated static settlement for spread footings located within Zone A is not acceptable from structural standpoint, the ground beneath the spread footings within Zone A can be improved by installing drilled displacement columns that transfer building loads to less compressible alluvium (see Section 6.1.1 and 7.5).

We estimate the total settlement of a mat-supported building will be less than 3/4 inch and differential settlement would be approximately 1/2 inch over a horizontal distance of 30 feet; except within Zone A. We estimate total settlement of mat located within Zone A will be as much as about 1-1/2 inches. The differential settlement of the mat within this zone will be controlled to some degree by the stiffness/rigidity of the mat; however, we anticipate it can be designed to limit differential settlements to about 3/4 inch over a 30-foot horizontal distance.

As discussed in Section 5.2.3, interconnected continuous spread footings and mat should be designed for additional liquefaction-induced total and differential settlements on the order of 1/4 inch and 1/4 inch over a horizontal distance of 30 feet, respectively.

6.1.1 Ground Improvement

Ground improvement serves to stiffen the overall soil matrix and/or transferring the foundation loads to more competent material at depth, thus reducing settlements and providing increased bearing capacity beneath the shallow foundations. There are several types of ground improvement that may be utilized to mitigate total and differential settlements of the proposed building. Based on our experience, we conclude drilled displacement columns (DDCs) would be the most appropriate ground improvement method for the area of weaker soil within Zone A.

DDCs are installed by advancing a hollow-stem auger that mostly displaces the soil and then pumping a sand-cement grout into the hole under pressure as the auger is withdrawn. As a result, the DDCs densify the surrounding soil. Because of the displacement drilling method, fewer drilling spoils are generated for off-haul. DDC ground improvement results in low vibrations during installation and is appropriate for use near adjacent structures. DDCs are typically installed under design-build contracts by specialty contractors.

6.2 Excavation Support and Construction Considerations

The soil to be excavated consists primarily of clay with varying silt and sand content and weathered siltstone and claystone, which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If concrete debris or former foundation elements are encountered during grading, removal will require equipment capable of breaking concrete, such as a hoe-ram.

Excavations that will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). If shoring is required for excavation support, a shoring engineer should be responsible for the design. The contractor should be responsible for the construction and safety of temporary slopes and shoring.

Construction of below-grade walls (i.e., elevator pits) may require an excavation extending more than five feet bgs. Where there is adequate space, the sides of the excavation may be sloped and the walls subsequently backfilled. Where there is insufficient space to slope the sides of the excavation, shoring will be required. We judge that a cantilevered soldier pile and timber lagging shoring system would be the most appropriate method of support for excavations for this project.

6.3 Soil Corrosivity

Corrosivity tests were performed by Project X Corrosion Engineering of Murrieta, California on soil samples obtained from Boring B-1 and B-2 at depths of 1.5 and 3 feet bgs, respectively. The corrosivity test results are presented in Appendix B of this report.

Many factors can affect the corrosion potential of soil including, but not limited to, resistivity, pH, and chloride and sulfate concentrations. Based on the minimum soil resistivity measurements of 1,340 and 1,474 ohm-centimeters (ohm-cm), we conclude the soil is "highly corrosive[5]" to buried metal. Accordingly, all buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric-coated steel or iron should be protected against corrosion depending upon the critical nature of the structure. If it is necessary to have metal in contact with soil, a corrosion engineer should be consulted to provide recommendations for corrosion protection.

The results of the pH tests (8.8 and 8.4) indicate the near-surface is "negligibly corrosive" to buried metallic and concrete structures; however, since the pH is higher than 8.5, the soil is alkaline and can cause accelerated corrosion of copper and aluminum alloys. The chloride ion concentrations (6.9 and 6.2 mg/kg) indicate the chlorides in the near-surface soil are "negligibly corrosive" to buried metallic structures and reinforcing steel in concrete structures below ground. The results also indicate the sulfate ion concentrations (34.5 and 60.7 mg/kg) are sufficiently low such that sulfates do not to pose a threat to buried concrete and mortars.

7.0 RECOMMENDATIONS

Recommendations for site grading, foundation design, shoring design and construction, and seismic design are presented in this section of the report.

7.1 Site Preparation and Grading

Site clearing should include removal of all existing pavements, former foundation elements, and underground utilities. Demolished asphalt concrete should be taken to an asphalt recycling facility. Demolished concrete and aggregate base beneath existing pavements may be re-used as select fill if carefully segregated. Any vegetation and the upper 3 to 4 inches of organic topsoil should be stripped in areas to receive improvements (i.e., building, pavement, or flatwork). Tree

[5] Roberge, Pierre R. (2018). *Corrosion Basics, an Introduction, Third Edition*. NACE International, P. 189.

roots with a diameter greater than 1/2 inch within four feet of building subgrade should be removed.

In general, abandoned underground utilities should be removed to the property line or service connections and properly capped or plugged with concrete. Where existing utility lines are outside of the proposed building footprint and will not interfere with the proposed construction, they may be abandoned in-place provided the lines are filled with lean concrete or cement grout to the property line. Any excavations created during demolition should be properly backfilled with compacted fill under the direction of our field engineer.

If grading work is performed during the rainy season, the contractor may find the subgrade material too wet to compact to the recommended relative compaction and will have to be scarified and aerated to lower its moisture content so the specified compaction can be achieved. Material to be dried by aeration should be scarified to a depth of at least eight inches; the scarified soil should be turned at least twice a day to promote uniform drying. Once the moisture content of the aerated soil has been reduced to acceptable levels, the soil should be compacted in accordance with our recommendations. Aeration typically is the least costly method used to stabilize the subgrade soil; however, it generally requires the most time to complete. Other soil stabilization alternatives include overexcavating and placing drier material, and lime treatment.

In areas that will receive fill or improvements (i.e., building pad subgrade, pavement or flatwork), the soil subgrade exposed should be scarified to a depth of at least eight inches, moisture-conditioned to above optimum moisture content, and compacted to at least 90 percent relative compaction[6]. If the subgrade is within eight inches of finished subgrade in areas to receive vehicular traffic, it should be moisture-conditioned to above optimum moisture content and compacted to at least 95 percent relative compaction. The soil subgrade should be kept moist until it is covered by fill or improvements.

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[6] Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D1557 laboratory compaction procedure.

7.1.1 Fill Materials and Compaction Criteria

Fill should consist of on-site soil or imported soil (select fill) that is free of organic matter, contains no rocks or lumps larger than four inches in greatest dimension, and is approved by the Geotechnical Engineer. Imported fill should also have a liquid limit of less than 40 and a plasticity index lower than 15. Samples of proposed imported fill material should be submitted to the Geotechnical Engineer at least three business days prior to use at the site. The grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not available, up to two weeks should be allowed to perform analytical testing on the proposed imported material.

Fill should be placed in horizontal lifts not exceeding eight inches in uncompacted thickness, moisture-conditioned to above optimum moisture content, and compacted to at least 90 percent relative compaction. Fill consisting of clean sand or gravel (defined as soil with less than five percent fines by weight) should be compacted to at least 95 percent relative compaction. Fill greater than five feet in thickness or placed within vehicular pavement areas should also be compacted to at least 95 percent relative compaction, and be non-yielding.

7.1.2 Utility Trench Excavations and Backfill

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. All temporary excavations used in construction should be designed, planned, constructed, and maintained by the contractor and should conform to all state and/or federal safety regulations and requirements, including those of CAL-OSHA.

To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of clean sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with clean sand or fine gravel, which should be mechanically tamped. Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted as according to the recommendations

previously presented. If imported clean sand or gravel (defined as soil with less than five percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the pavement section.

Foundations for the proposed building should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal to vertical) inclination from the base of utility trenches. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled with controlled low strength material (CLSM) with minimum 28-day unconfined compressive strength of 100 pounds per square inch (psi) or Class 2 aggregate base compacted to at least 95 percent relative compaction. If utility trenches are to be excavated below this zone-of-influence line after construction of the building foundations, the trench walls need to be fully supported with shoring until CLSM or Class 2 aggregate base is placed.

7.1.3 Exterior Concrete Flatwork

We recommend a minimum of four inches of Class 2 aggregate base be placed below exterior concrete flatwork, including patio slabs and sidewalks; the aggregate base should extend at least six inches beyond the slab edges where adjacent to landscaping. Concrete flatwork should be at least four inches thick and reinforced with No. 3 bars at 18 inches on center. Class 2 aggregate base beneath exterior slabs-on-grade, such as patios and sidewalks, should be compacted in accordance with the requirements provided above in Section 7.1.1.

7.2 Surface Drainage and Bio-Retention

7.2.1 Surface Drainage

Positive surface drainage should be provided around the building to direct surface water away from the foundations. To reduce the potential for water ponding adjacent to the building, we recommend the ground surface within a horizontal distance of five feet from the building slope down away from the building with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled

drainage facilities to keep the water away from the foundations. The use of water-intensive landscaping around the perimeter of the building should be avoided to reduce the amount of water introduced to the soil subgrade.

Care should be taken to minimize the potential for subsurface water to collect beneath pavements and pedestrian walkways. Where landscape beds and tree wells are immediately adjacent to pavements and flatwork, we recommend vertical cutoff barriers be incorporated into the design to prevent irrigation water from saturating the subgrade and aggregate base. These barriers may consist of either flexible impermeable membranes or deepened concrete curbs.

7.2.2 Bioswales

The primary concerns with providing bio-retention areas for this project site are: 1) providing suitable support for foundations and curbs constructed near the bio-retention areas, and 2) potential for subsurface water from the bio-retention areas to migrate (and possibly build up) beneath pavements and the proposed building. Consequently, we recommended that bioswales constructed at the site be provided with underdrains and/or drain inlets; and bioswales should be constructed at least five feet from the building. The subdrain pipes should be installed eight inches above the bottom of the infiltration area for treatment areas that are at least five feet away from the new building and pavements. The intent of this recommendation is to allow infiltration into the underlying soil, but to reduce the potential for bio-retention areas to flood during periods of heavy rainfall.

Where bio-retention areas are constructed within five feet of the new building, the side and bottom of treatment area within five fee of the new building should be lined with an impermeable liner. Where bio-retention areas are constructed within five feet of pavements, a four-inch-diameter perforated subdrain pipe should be placed four inches above the base of the treatment area; or the bottom of the treatment area should be lined with an impermeable liner. Where a vertical curb or foundation is constructed near a bio-retention area, the curb and the edge of the foundation should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal: vertical) from the base of the bio-retention area.

7.3 Foundation and Settlement

We conclude the proposed building should be supported on a stiffened shallow foundation system, such as interconnected continuous spread footings or a mat, provided the estimated foundation settlements presented in Section 6.1 are acceptable from structural standpoint.

7.3.1 Interconnected Continuous Footings

Interconnected continuous footings should be at least 18 inches wide and bottom on firm soil or bedrock. Perimeter footings should be bottomed at least 24 inches below the lowest adjacent outside grade. The perimeter footing embedment depth may be decreased by six inches where pavement or concrete flatwork is adjacent to the new building. Interior footings should be bottomed at least 18 inches below the bottom of the capillary moisture break.

For design of the interconnected continuous footings, we recommend using an initial modulus of subgrade reaction of 20 pounds per cubic inch (pci) for dead-plus-live loads (10 pci for footings located within Zone A). These values have already been scaled to account for the plan dimensions of the foundation (therefore, this is <u>not</u> k_{v1} for 1-foot-square plate) and may be increased by one-third for total load conditions. Once the structural engineer estimates the distribution of bearing stress on the bottom of the footings and the corresponding deflections, we should review the distribution and revise the modulus of subgrade reaction, if appropriate.

Footings may be designed using an allowable bearing pressure of 3,500 pounds per square foot (psf) for dead-plus-live loads; this value may be increased by one-third for total design loads, which include wind or seismic forces. The allowable bearing pressures for dead-plus-live and total loads include factors of safety of at least 2.0 and 1.5, respectively.

As discussed in Section 6.1, if the estimated static settlement for spread footings located within Zone A is not acceptable from structural standpoint, the ground beneath the spread footings within Zone A should by improved by installing DDCs that transfer building loads to less compressible alluvium (see Section 6.1.1 and 7.5).

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the footings and the supporting soil. To compute lateral resistance, we recommend using an uniform pressure of 1,500 psf for transient load conditions and an equivalent fluid weight of 260 pounds per cubic foot (pcf) for sustained load conditions; the upper foot of soil should be ignored unless confined by a slab or pavement. Frictional resistance should be computed using a base friction coefficient of 0.30. The passive pressure and frictional resistance values include a factor of safety of at least 1.5 and may be used in combination without reduction.

Footing excavations should be free of standing water, debris, and disturbed materials prior to placing concrete. The bottoms and sides of the footing excavations should be moistened following excavation and maintained in a moist condition until concrete is placed. We should check footing excavations prior to placement of reinforcing steel to check for proper bearing and preparation.

7.3.2 Mat Foundation

The edge of the mat foundation should bottom at least nine inches below the lowest adjacent exterior soil subgrade; however, the edge may need to be deepened further where utility trenches, bioswales, or loose landscape soil are planned along the building's edge. For mat design, we recommend using an initial modulus of subgrade reaction of 20 pounds per cubic inch (pci) for dead-plus-live loads (10 pci for mat located within Zone A). These values have already been scaled to account for the plan dimensions of the foundation (therefore, this is <u>not</u> k_{v1} for 1-foot-square plate) and may be increased by one-third for total load conditions. Once the structural engineer estimates the distribution of bearing stress on the bottom of the mat and the corresponding deflections, we should review the distribution and revise the modulus of subgrade reaction, if appropriate.

Considering the large area of the mat, we expect the average bearing stress under the mat to be low; however, concentrated stresses will occur at column locations and at the edges of the mat. The mat should be designed to impose a maximum dead-plus-live-load bearing pressure of 3,500

psf on the foundation subgrade soil. This pressure may be increased by one-third for total load conditions.

Assuming the mat is underlain by a vapor retarder, a friction factor of 0.20 may be used to compute base friction. Where the mat foundation is supported directly on soil, a friction factor of 0.30 may be used. To compute lateral resistance, we recommend using an uniform pressure of 1,500 psf for transient load conditions and an equivalent fluid weight of 260 pcf for sustained load conditions; the upper foot of soil should be ignored unless confined by a slab or pavement. The values for friction coefficient and passive pressure include a factor of safety of 1.5 and may be used in combination without further reduction.

7.4 Concrete Slab-on-Grade Floor

The subgrade for the slab-on-grade floor (for the spread footing foundation option) or mat foundation should be prepared in accordance with our recommendations in Section 7.1.1. Where water vapor transmission through the floor slab/mat is not desirable, we recommend installing a capillary moisture break and water vapor retarder beneath the floor slab. A capillary moisture break consists of at least four inches of clean, free-draining gravel or crushed rock. The particle size of the capillary break material should meet the gradation requirements presented in Table 2.

TABLE 2
Gradation Requirements for Capillary Moisture Break

Sieve Size	Percentage Passing Sieve
1 inch	90 – 100
¾ inch	30 – 100
½ inch	5 – 25
3/8 inch	0 – 6

The vapor retarder should meet the requirements for Class B vapor retarders stated in ASTM E1745. For the mat foundation option, the four-inch capillary break can be eliminated provided

the vapor retarder meets the requirements for Class A vapor retarders. The vapor retarder should be placed in accordance with the requirements of ASTM E1643. These requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder.

Concrete mixes with high water/cement (w/c) ratios result in excess water in the concrete, which increases the cure time and results in excessive vapor transmission through the slab or mat. Therefore, concrete for the floor slab/mat should have a low w/c ratio - less than 0.45. Water should not be added to the concrete mix in the field. If necessary, workability should be increased by adding plasticizers. In addition, the slab should be properly cured. Before the floor covering is placed, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

7.5 Ground Improvement

We consider DDCs to be the most appropriate ground improvement method for the Zone A portion of this project. DDCs are installed under design-build contracts by specialty contractors. The required size, spacing, length, and strength of the ground improvement elements should be determined by the design-build contractor based on the proposed structural loads and the desired level of improvement (tolerable settlement and/or desired bearing capacity).

For planning purposes, we recommend the DDCs extend to firm native alluvium or bedrock. We anticipate the DDCs will bottom 25 to 35 feet bgs. The length and spacing of the DDCs should be sufficient to limit total and differential static settlement of footing supported on improved ground to 3/4 inch and 1/2 inch across a horizontal distance of 30 feet, respectively, for design allowable bearing pressure of 3,500 psf for dead-plus-live load conditions.

We recommend the interface between the ground improvement elements and bottoms of spread footings or a mat be separated by a minimum 12-inch-thick compacted aggregate cushion, consisting of Class 2 aggregate base or crushed rock. The purpose of the aggregate cushion is to provide some degree of isolation between the two elements, which will help prevent excessive moments from being induced in the ground improvement columns during lateral loading.

7.5.1 Load Test

We recommend the ground improvement design be verified in the field by performing at least one full-scale load test in compression and one load test in tension (if applicable). Details regarding the proposed load testing program should be included in the design-build submittal for our review prior to mobilization to the site. The load tests should be performed on non-production DDCs, under our observation, constructed using the same equipment, means-and-methods, area replacement ratio, and grout factor proposed for the production DDCs. The results of the load testing program should be evaluated by the design-build contractor's engineer, as well as our engineer, to confirm the columns provide adequate factor of safety with respect to axial load failure and allowable axial deflection at the design load prior to commencing with production installation.

7.6 Permanent Below-Grade Walls

Permanent below-grade walls should be designed to resist lateral earth pressure imposed by the retained soil, as well as a surcharge pressure from nearby foundations and vehicles, where appropriate. Where permanent below-grade walls will be restrained from movement at the top or sides (e.g., retaining walls with 90-degree angle turn, such as elevator pit walls), they should be designed for at-rest conditions. We recommend restrained walls be designed using an at-rest equivalent fluid weight of 60 pcf. Retaining walls that are unrestrained at the top should be designed for active conditions using an active equivalent fluid weight of 40 pcf. To evaluate the restrained and unrestrained walls for seismic loading, we recommend using active equivalent fluid weight plus a seismic increment as shown in Table 3.

TABLE 3
Lateral Earth Pressures for Retaining Wall Design

Wall Restraint	Static Condition	Seismic Condition[1]
Unrestrained	40 pcf	40 pcf + 16 pcf
Restrained	60 pcf	40 pcf + 41 pcf

Note 1: The 2019 CBC requires walls that retain more than six feet of backfill to be checked for seismic loading.

Where there will be vehicular traffic behind the top of a permanent wall within a horizontal distance equal to 1.5 times the height of the wall, the wall should be designed for vehicular surcharge of 50 psf at the upper 10 feet. Where existing foundations are supported above a "zone-of-influence" line extending up from a permanent wall at an inclination of 1.5:1 (horizontal: vertical), the wall should be designed for a surcharge pressure.

The design pressures recommended above are based on fully drained walls. Although below-grade retaining walls will be above the groundwater level, water can accumulate behind the walls from other sources, such as rainfall, irrigation, and broken water lines, etc. If the earth pressures presented above are used to design the walls, they will need to incorporate a drainage system (i.e., a back drain) behind the walls. One acceptable method for back-draining a retaining wall is to place a prefabricated drainage panel against the back of the wall. The drainage panel should extend down to a perforated PVC collector pipe surrounded by at least four inches of Caltrans Class 2 permeable material or 3/4-inch drain rock wrapped in filter fabric (Mirafi 140NC or equivalent). A proprietary, prefabricated collector drain system, such as Tremdrain Total Drain or Hydroduct Coil (or equivalent), designed to work in conjunction with the drainage panel may be used in lieu of the perforated pipe surrounded by gravel described above. The pipe should be connected to a suitable discharge point; a sump and pump system may be required to drain the collector pipes for below-grade retaining walls, such as elevator pit walls.

To protect against moisture migration, below-grade retaining walls should be waterproofed and water stops should be placed at all construction joints. If backfill is required behind retaining

walls, the walls should be braced, or hand compaction equipment used, to prevent unacceptable surcharges on walls (as determined by the structural engineer).

7.7 Temporary Cut Slopes and Excavation Shoring

Excavations that will be entered by workers should be shored or sloped in accordance with the Occupational Safety and Health Administration (OSHA) standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes. The shoring designer should be responsible for the shoring design.

Where space permits, the sides of the temporary excavation can be sloped. We recommend temporary slopes not exceed an inclination of 1:1 (horizontal to vertical) in clayey soil (OSHA Type B Soil). Where space does not permit sloping of the excavation perimeter, a shoring system will be required to support the sides of the proposed excavation. We judge that a cantilevered soldier pile and lagging shoring system is appropriate for support of excavations that are less than 12 feet deep.

A structural/civil engineer knowledgeable in this type of construction should be retained to design the shoring. The shoring designer should design the shoring system for lateral deformation of less than one inch at any location on the shoring (1/2 inch if neighboring structures are within a horizontal distance equal to two times the height of the shoring). We should review the final shoring plans and calculations to check that they are consistent with the recommendations presented in this report.

7.7.1 Cantilevered Soldier-Pile-and-Lagging Shoring System

A cantilevered soldier pile and lagging system should be designed using an active equivalent fluid weight of 40 pcf for level backfill conditions. Where traffic loads are expected within 10 feet of the shoring walls, an additional design load of 50 psf should be applied to the upper 10 feet of the wall. Shoring should be designed for surcharge loads where there will be construction equipment and/or stockpiled soil within a horizontal distance of 1.5 times the excavation height from the edge of excavation. We can provide recommendations for surcharge pressures once surcharge loads are known.

Passive resistance at the toe of the soldier piles should be computed using an equivalent fluid weight of 260 pcf, with a maximum passive earth pressure of 2,500 psf. The upper foot of soil should be ignored when computing passive resistance. Passive pressure can be assumed to act over an area of three soldier pile widths assuming the toe of the soldier pile is filled with structural concrete. If lean concrete is placed in the soldier pile shaft, the passive pressure can be assumed to act over two pile diameters. These passive pressure values include a factor of safety of at least 1.5.

Soldier piles should be placed in pre-drilled holes backfilled with concrete or installed in soil-mix columns. The subsurface soils include lenses of clayey sands. The shoring contractor should be prepared to use casing or drilling slurry to reduce caving of holes, where necessary. Installing soldier piles using a vibratory method is not recommended within 25 feet of existing structures.

7.8 Pavement and Paver Design

Design recommendations for asphalt concrete and Portland cement concrete pavements, and concrete pavers are presented in the following sections.

7.8.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete pavement sections. The final soil subgrade in pavement areas will likely consist of sandy clay or clayey sand. Based on our experience with similarly soils, we recommend a preliminary resistance value (R-value) of 15 be used for asphalt concrete pavement design. Recommended pavement sections for traffic indices (TIs) ranging from 4.5 to 6.5 are presented in Table 4. The Civil Engineer for the project should check that the TIs presented in this report are appropriate for the intended use. We can provide additional pavement sections for different TIs upon request.

TABLE 4
Asphalt Concrete Pavement Sections
R-Value of 15 for Subgrade Soil

Traffic Index	Asphaltic Concrete (inches)	Class 2 Aggregate Base (inches)
4.5	2.5	8.0
5.0	3.0	8.0
5.5	3.0	10.0
6.0	3.5	10.5
6.5	4.0	11.5

The upper eight inches of the subgrade should be moisture-conditioned and compacted in accordance with requirements presented in Section 7.1. The subgrade should be proof-rolled under the direction of our field engineer to confirm it is non-yielding prior to placement of aggregate base. The aggregate base should be moisture conditioned to near optimum and compacted to at least 95 percent relative compaction. The aggregate base should also be proof-rolled to confirm it is non-yielding prior to paving.

If pavements are adjacent to irrigated landscaped areas, curbs adjacent to those areas should extend through the aggregate base and at least three inches into the underlying soil to reduce the potential for irrigation water to infiltrate into the pavement section. If drip irrigation is used in the landscaping adjacent to the pavement, however, the deepened curb is not required.

7.8.2 Rigid (Portland-Cement Concrete) Pavement Design

The Portland-cement concrete (PCC) pavement section design is based on a maximum single-axle load of 20,000 pounds and a maximum tandem axle of 32,000 pounds (i.e., several garbage trucks per week). The recommended rigid pavement section for these axle loads is 6.5 inches of Portland-cement concrete over six inches of Class 2 aggregate base. For areas that will receive fire truck traffic, the pavement section should consist of seven inches of Portland-cement concrete over six inches of Class 2 aggregate base. For areas that will experience only passenger

vehicle traffic, the recommended pavement section is five inches of PCC over six inches of Class 2 aggregate base.

The modulus of rupture and unconfined compressive strength of the concrete should be at least 500 and 3,200 psi at 28 days, respectively. Contraction joints should be placed at a 15-foot spacing. Where the outer edge of a concrete pavement meets asphalt pavement, the concrete slab should be thickened by 50 percent at a taper not to exceed a slope of 1 in 10. For concrete pavements subject to truck loading, we recommend the concrete slab be reinforced with a minimum of No. 4 bars at 16 inches on center in both directions.

The soil subgrade beneath Portland cement concrete pavements should be prepared and compacted in accordance with the recommendations presented in Section 7.1. In addition, the subgrade should be a firm and non-yielding surface. The subgrade should be proof-rolled under the direction of our field engineer to confirm it is non-yielding prior to placing the aggregate base. The Class 2 aggregate base should be moisture-conditioned to near optimum moisture content and compacted to at least 95 percent relative compaction.

7.8.3 Non-Permeable Concrete Pavers

Where non-permeable concrete pavers will be subject to vehicular traffic, we recommend they consist of fully dentated, interlocking shapes and be at least 80 millimeters (3.15 inches) thick. The pavers should be placed on a 1- to 2-inch-thick sand leveling course underlain by Class 2 aggregate base. The thickness of the Class 2 aggregate base beneath non-permeable pavers subject to vehicular traffic should be consistent with the sections presented for asphalt pavement in Section 7.8.1 for the applicable TI. The subgrade and aggregate base should be compacted in accordance with the recommendations for asphalt pavement in Section 7.8.1.

7.8.4 Permeable Concrete Pavers

We recommend permeable interlocking concrete pavements (ICP) be designed in accordance with the guidelines presented by the Interlocking Concrete Pavement Institute (ICPI 2005). These guidelines include specific recommendations for permeable aggregate subbase, base, and bedding courses to be placed beneath ICP pavements. We recommend permeable pavements for

both vehicular and pedestrian traffic be designed for **no exfiltration** and **partial exfiltration** of water into the subgrade soil, respectively. This requires installing a subdrain system at the base of the pervious aggregate materials, which are underlain by an impermeable liner. ICPI's generalized paver section for no exfiltration and partial exfiltration are presented on Figures 6 and 7, respectively.

The soil subgrade beneath ICP pavements should be prepared and compacted in accordance with the recommendations presented in Sections 7.1. In addition, the subgrade should be a firm and non-yielding surface. The subgrade should be proof-rolled under the observation of our field engineer to confirm it is non-yielding prior to placing the impermeable membrane and aggregate base materials. The soil subgrade at the bottom of the permeable section should slope down toward the drainpipe trench at a gradient of at least two percent. The perforated pipe should slope down to a suitable outlet at a minimum gradient of one percent. The pipe should be placed with the perforations down on a minimum of two inches of permeable subbase.

ICPI's guidelines call for 1-1/2 to 2 inches of bedding material consisting of ASTM No. 8 crushed aggregate directly below the pavers. This material is also recommended for fill material between the pavers. As shown in Table 5 below, this material consists of fine gravel with 10 to 30 percent sand.

TABLE 5
Gradation Requirements for ASTM No. 8 Crushed Aggregate

Sieve Size	Percentage Passing Sieve
1/2 inch	100
3/8 inch	85 – 100
No. 4	10 – 30
No. 8	0 – 10
No. 16	0 – 5

The ASTM No. 8 bedding should be underlain by a permeable base course of ASTM No. 57 crushed aggregate. As shown in Table 6, ASTM No. 57 aggregate consists of crushed, open-

graded gravel with a gradation between that of the 3/4-inch drain rock and the ASTM No. 8 aggregate.

TABLE 6
Gradation Requirements for ASTM No. 57 Crushed Aggregate

Sieve Size	Percentage Passing Sieve
1-1/2 inch	100
1 inch	95 – 100
1/2 inch	25 – 60
No. 4	0 – 10
No. 8	0 – 5

The ASTM No. 57 permeable base course should be underlain by a permeable subbase course of ASTM No. 2 crushed aggregate. The gradation requirements for ASTM No. 2 crushed aggregate subbase are presented in Table 7.

TABLE 7
Gradation Requirements for ASTM No. 2 Crushed Aggregate

Sieve Size	Percentage Passing Sieve
3 inch	100
2-1/2 inch	90-100
2 inch	35-70
1-1/2 inch	0-15
3/4 inch	0 -5

The No. 2 crushed aggregate subbase course should be placed in lifts not exceeding 6 inches in loose thickness and compacted using a smooth-drum roller that weighs a minimum of 10 tons, operated in static (non-vibratory) mode. The subsequent course of No. 57 crushed aggregate may be placed in one lift and should be compacted with a smooth-drum roller in vibratory mode with sufficient passes to create an unyielding surface. Placement and compaction of the permeable

aggregate base and subbase should be performed under the observation of our field engineer. Following compaction of the No. 57 aggregate, the No. 8 bedding, not exceeding 2 inches in loose thickness, should be placed and screeded to a level, undisturbed surface immediately prior to paver installation.

The required thicknesses of the permeable aggregate base and subbase courses depends on the infiltration and water storage design requirements, as well as the traffic loading demand. Our recommendations for the minimum permeable ICP pavement sections subject to vehicular traffic (including fire and garbage trucks) are presented in Table 8. Where permeable pavement will be subject to fire trucks, we recommend a layer of triaxial geogrid (i.e., Tensar TriAx TX-140 Geogrid or equivalent) be placed atop the soil subgrade prior to placing the paver aggregates. Also included in Table 8 is a recommended section for permeable ICPs subject to pedestrian traffic only.

TABLE 8
Recommended Pavement Sections for
Permeable Interlocking Concrete Pavers

Pavement Type	ASTM No. 8 Crushed Bedding Aggregate (inches)	ASTM No. 57 Crushed Base (inches)	ASTM No. 2 Crushed Subbase (inches)
Pedestrian	1.5-2.0	4.0	6.0
Vehicular	1.5-2.0	4.0	10.0

The above recommended ICP pavement sections are based on the ICPI technical guidelines (ICPI 2005). From a geotechnical standpoint, it is acceptable to design the pedestrian ICP section to exclude the No. 2 subbase course, in which case the No. 57 base course should be increased to 10 inches. If this approach is used, the perforated pipe should include a filter fabric sleeve to prevent the finer aggregate from entering the perforations.

7.9 Seismic Design

The latitude and longitude of the site are 37.9907° and -122.3049°, respectively. For design in accordance with 2019 CBC, we recommend the following:

- Site Class D – stiff soil
- S_S = 2.243g, S_1 = 0.852g

The 2019 CBC is based on the guidelines contained within ASCE 7-16 which stipulates that where S_1 is greater than 0.2 times gravity (g) for Site Class D, a ground motion hazard analysis is needed unless the seismic response coefficient (C_s) value will be calculated as outlined in Section 11.4.8, Exception 2. Assuming the C_s value will be calculated as outlined in Section 11.4.8, Exception 2, we recommend the following seismic design parameters:

- F_a = 1.00, F_v = 1.7
- S_{MS} = 2.243g, S_{M1} = 1.448g
- S_{DS} = 1.495g, S_{D1} = 0.966g
- Seismic Design Category E for Risk Factors I, II, and III

8.0 ADDITIONAL GEOTECHNICAL SERVICES

Prior to construction, Rockridge Geotechnical should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during site preparation, placement and compaction of fill, and installation of building foundations. These observations will allow us to compare actual with anticipated subsurface conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

9.0 LIMITATIONS

This geotechnical investigation has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in our CPTs and borings.

If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

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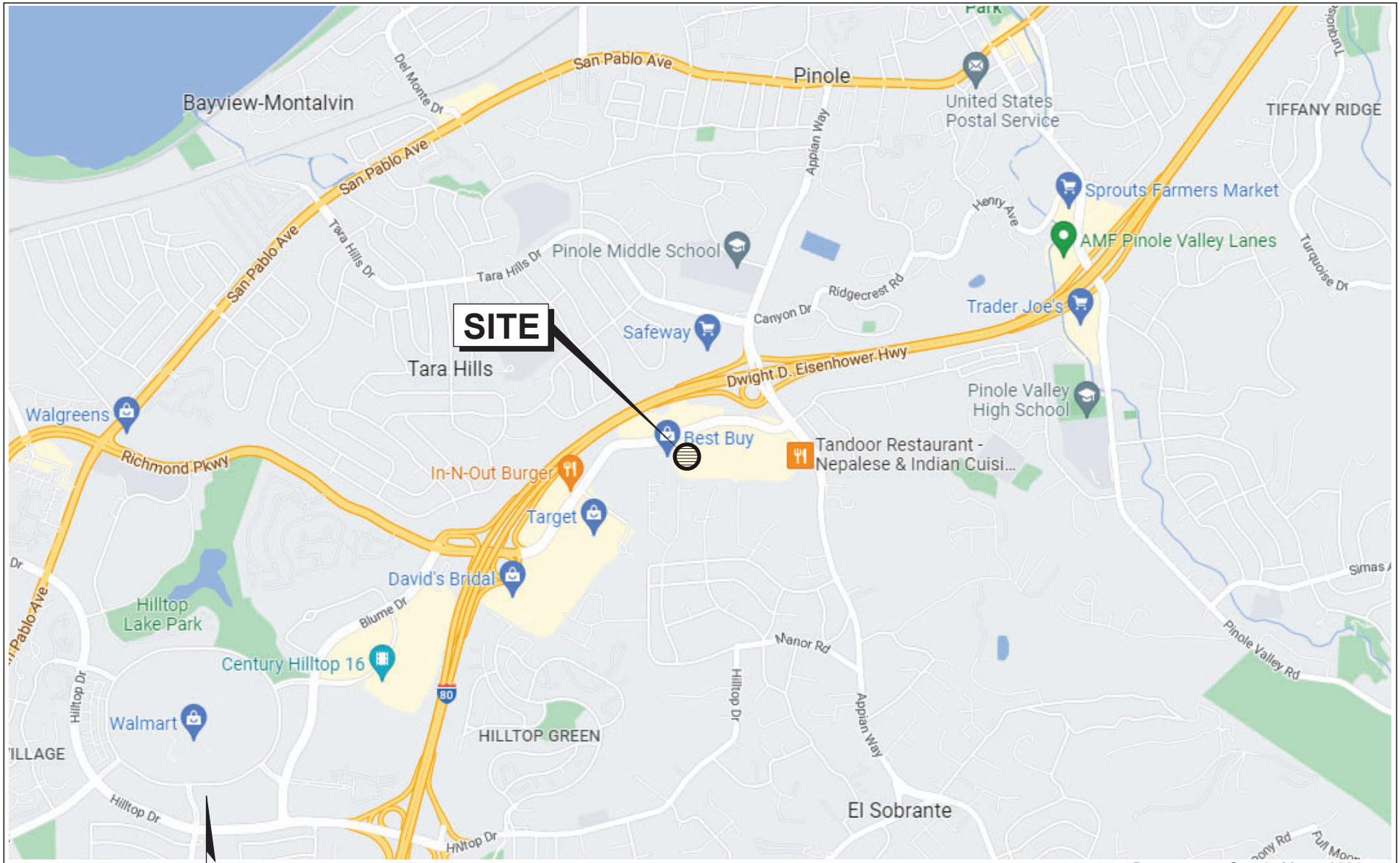
FIGURES



Base map: Google Maps, 2021

0 1,900 3,800 Feet

Approximate scale

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

SITE LOCATION MAP

Date 03/31/22	Project No. 22-2171	Figure 1

EXPLANATION

CPT-1 — Approximate location of cone penetration test by Rockridge Geotechnical, Inc., February 28, 2022

B-1 — Approximate location of boring by Rockridge Geotechnical, Inc., March 15, 2022

Project limits

0 — 80 Feet

Approximate scale

Reference: Base map from a drawing titled "Site Plan", by Trachtenberg Architects, dated April 7, 2021.

1500 FITZGERALD DRIVE
Pinole, California

SITE PLAN

Date 04/13/22	Project No. 22-2171	Figure 2

ROCKRIDGE GEOTECHNICAL

Base map: Google Earth with U.S. Geological Survey (USGS), Contra Costa County, 2021.

EXPLANATION

af	Artificial Fill
Qhym	Mud deposits (late Holocene)
Qha	Alluvium (Holocene)
Qpa	Alluvium (Pleistocene)
Tpms	Sedimentary rocks (Pliocene and early Miocene)
Tpmv	Volcanic rocks (Pliocene and early Miocene)
Tms	Sedimentary rocks (Miocene)

Geologic contact:
dashed where approximate and dotted where concealed, queried where uncertain

0 2,000 4,000 Feet

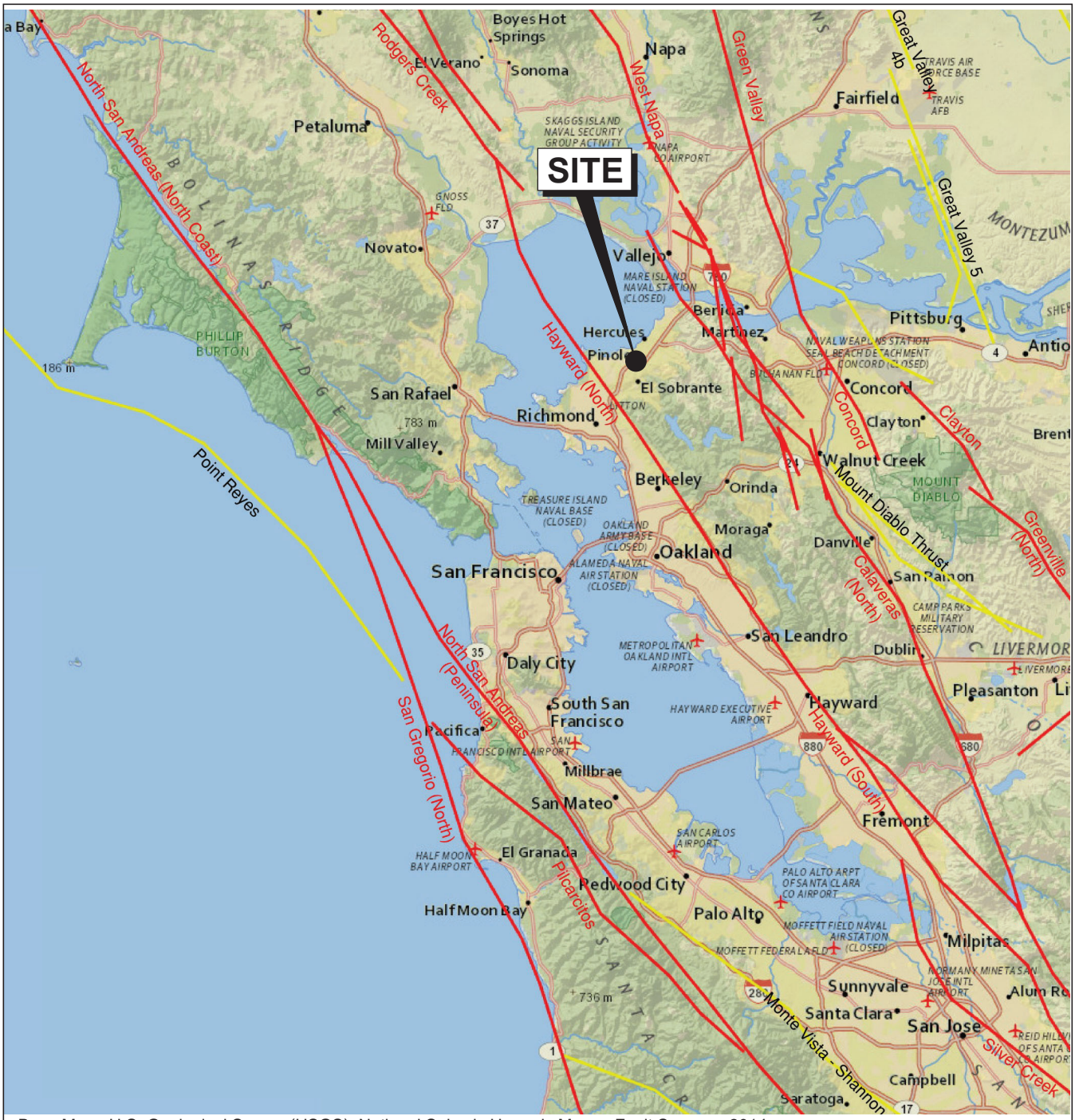
Approximate scale

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

REGIONAL GEOLOGIC MAP

Date 04/01/22	Project No. 22-2171	Figure 3



Base Map: U.S. Geological Survey (USGS), National Seismic Hazards Maps - Fault Sources, 2014.

EXPLANATION

Strike slip

Thrust (Reverse)

0 5 10 Miles

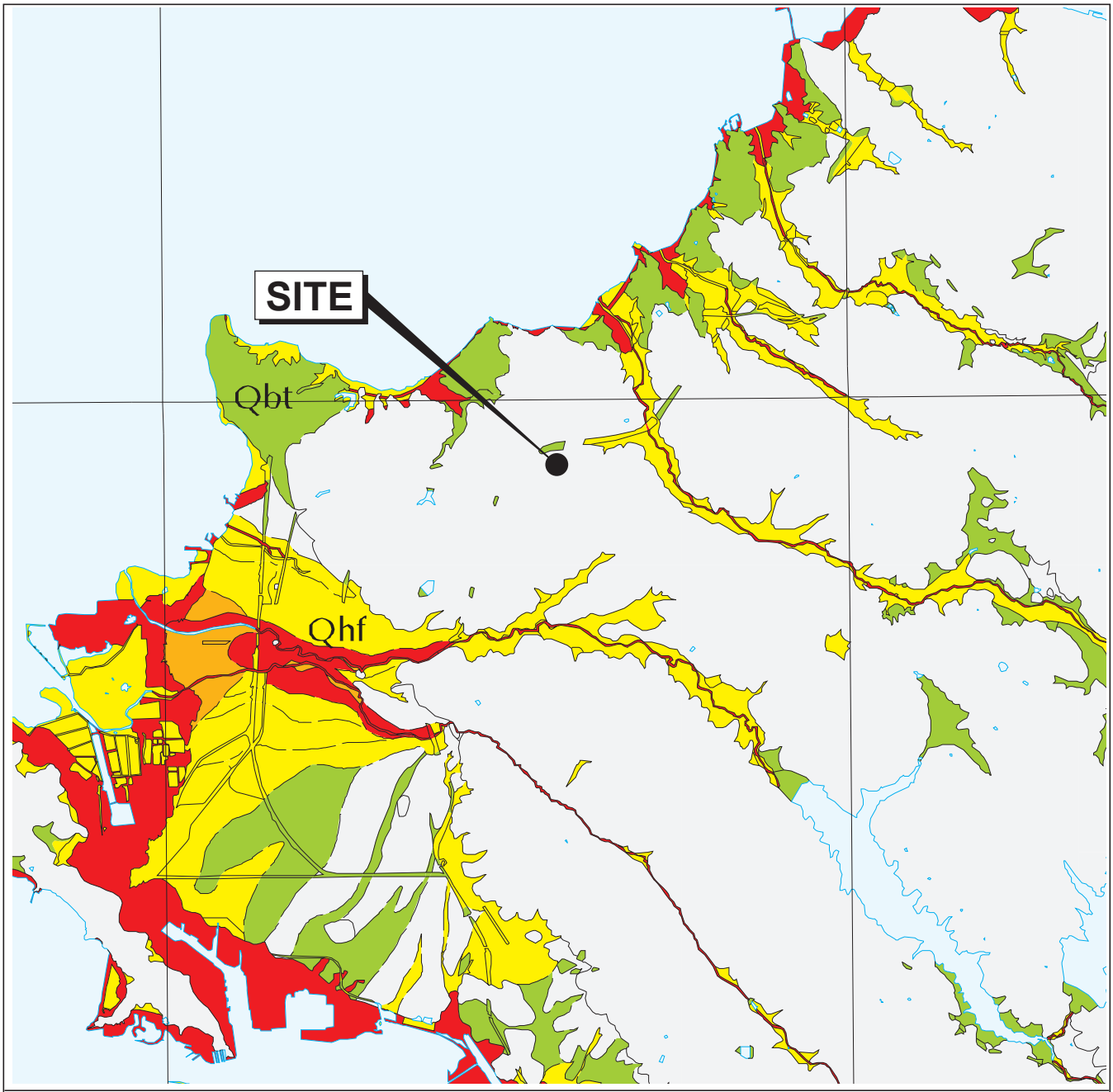
Approximate scale

1500 FITZGERALD DRIVE
Pinole, California

REGIONAL FAULT MAP

ROCKRIDGE GEOTECHNICAL

Date 03/31/22	Project No. 22-2171	Figure 4



LIQUEFACTION SUSCEPTIBILITY

- VERY HIGH
- HIGH
- MODERATE
- LOW
- VERY LOW

Lines

Contact, dashed where location uncertainty is greater than about +- 100 m.

0 1.5 3 Miles

Approximate scale

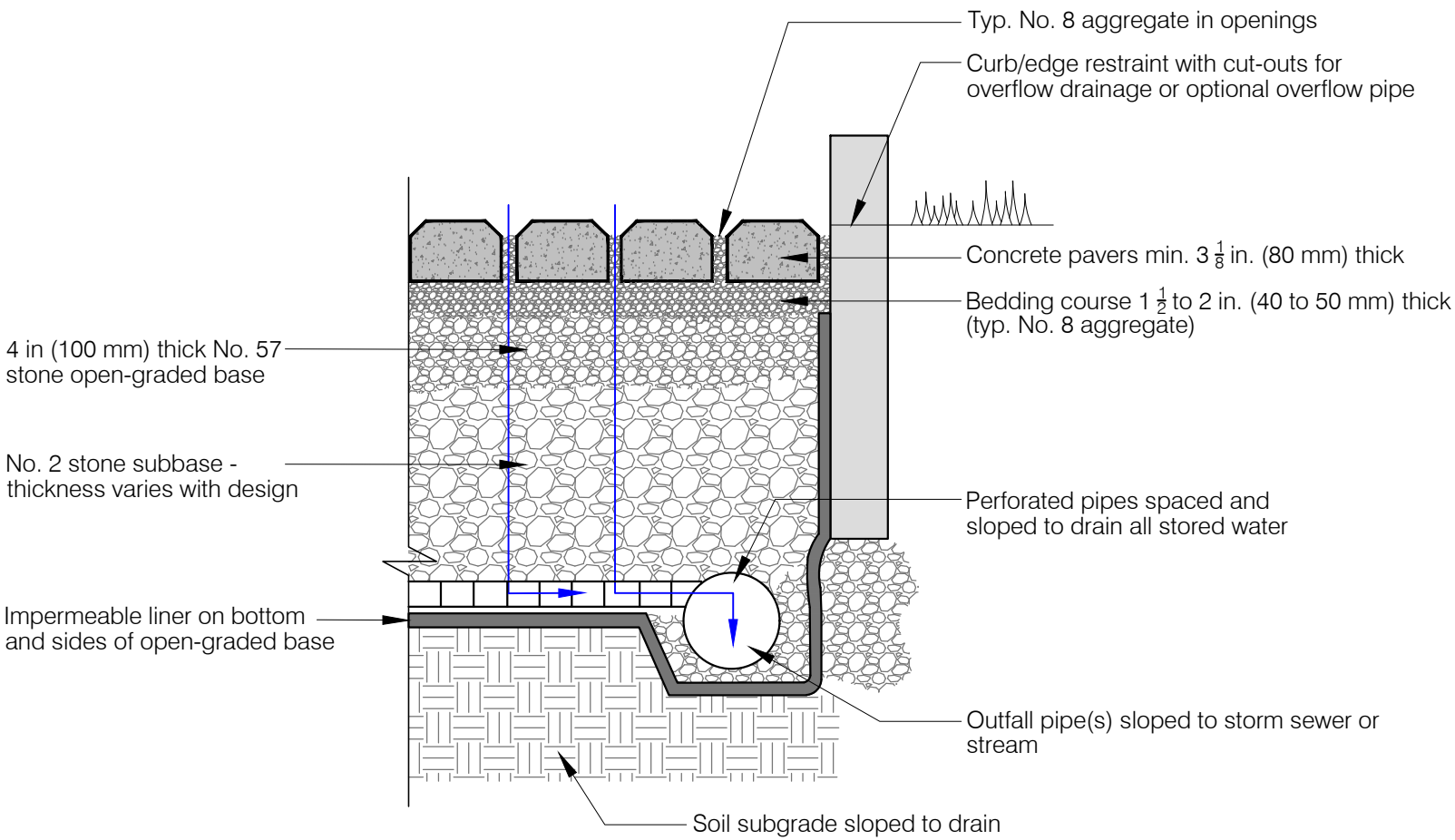
Reference:
Maps of Quaternary Deposits and Liquefaction Susceptibility in the Central San Francisco Bay Region, California, by USGS, 2006

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

LIQUEFACTION SUSCEPTIBILITY MAP

Date 04/11/22	Project No. 22-2171	Figure 5



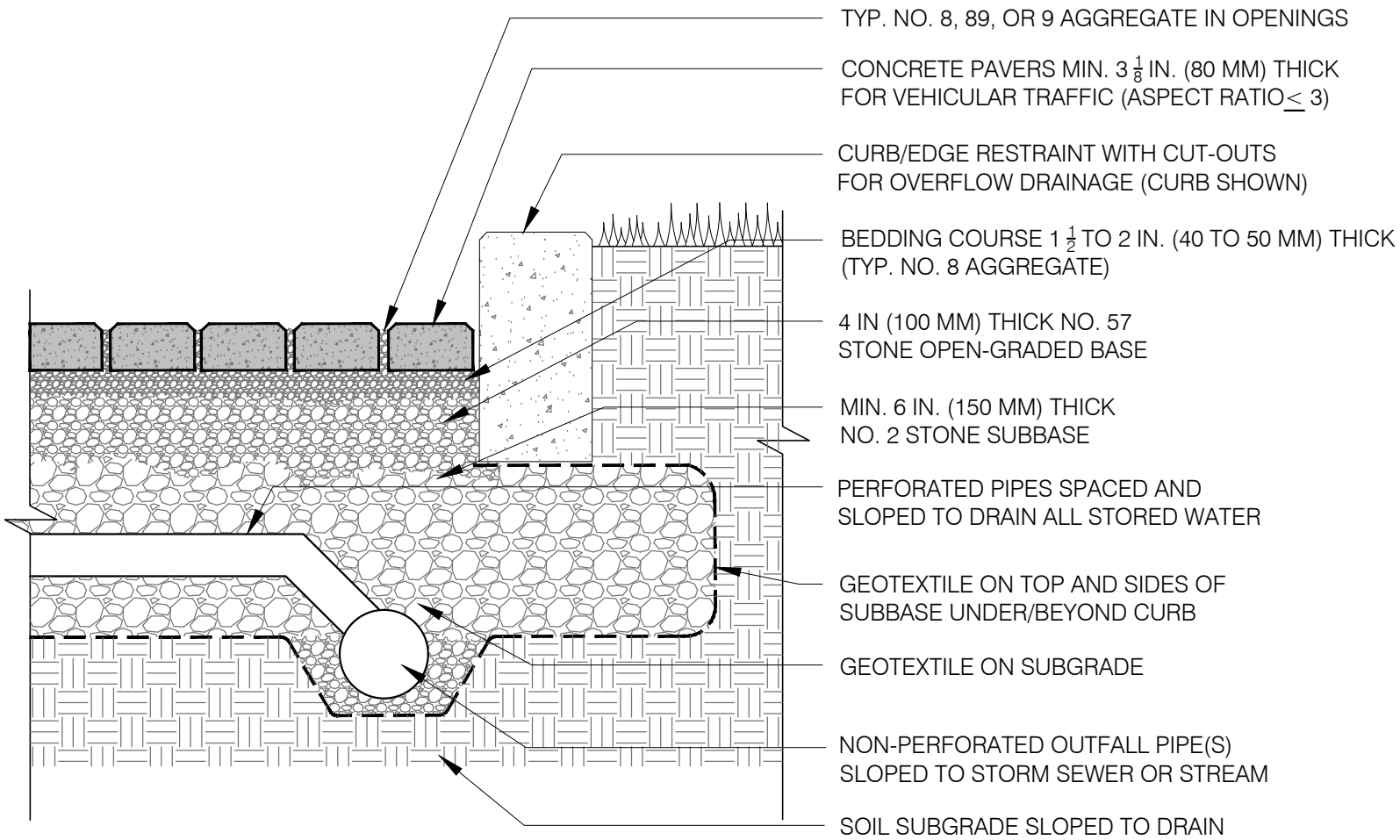
Reference: "Permeable Interlocking Concrete Pavements", Third Edition, prepared by Interlocking Concrete Pavement Institute, dated 2005.

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

GENERALIZED ICPI PERMEABLE PAVER DETAIL FOR NO EXFILTRATION

Date 04/11/22	Project No. 22-2171	Figure 6



NOTES:

1. 2 3/8 IN. (60 MM) THICK PAVERS MAY BE USED IN RESIDENTIAL APPLICATIONS.
2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL..
3. PERFORATED PIPES MAY BE RAISED FOR WATER STORAGE FROM LARGE RAIN EVENTS WITH OUTLET(S) AT LINER BOTTOM TO DRAIN SMALL RAIN EVENTS.

Reference: "Permeable Interlocking Concrete Pavements", Third Edition, prepared by Interlocking Concrete Pavement Institute, dated 2005.

1500 FITZGERALD DRIVE
Pinole, California

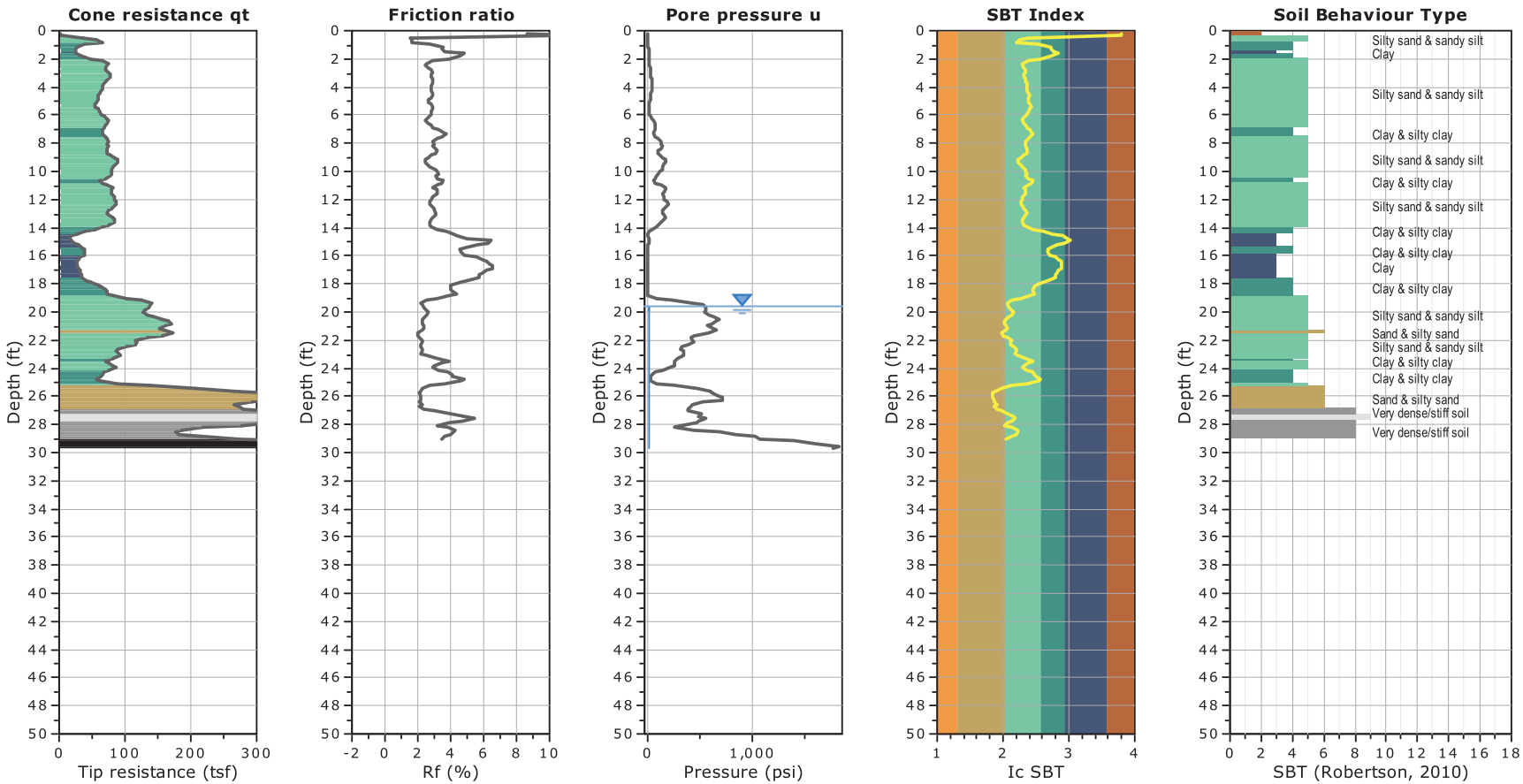
ROCKRIDGE GEOTECHNICAL

GENERALIZED ICPI PERMEABLE PAVER DETAIL FOR PARTIAL EXFILTRATION

Date 04/11/22	Project No. 22-2171	Figure 7

APPENDIX A

Cone Penetration Test Results and Logs of Borings



Total depth: 29.7 ft, Date: February 28, 2022
Depth to Groundwater: 19.7 feet (based on groundwater level in Boring B-1)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

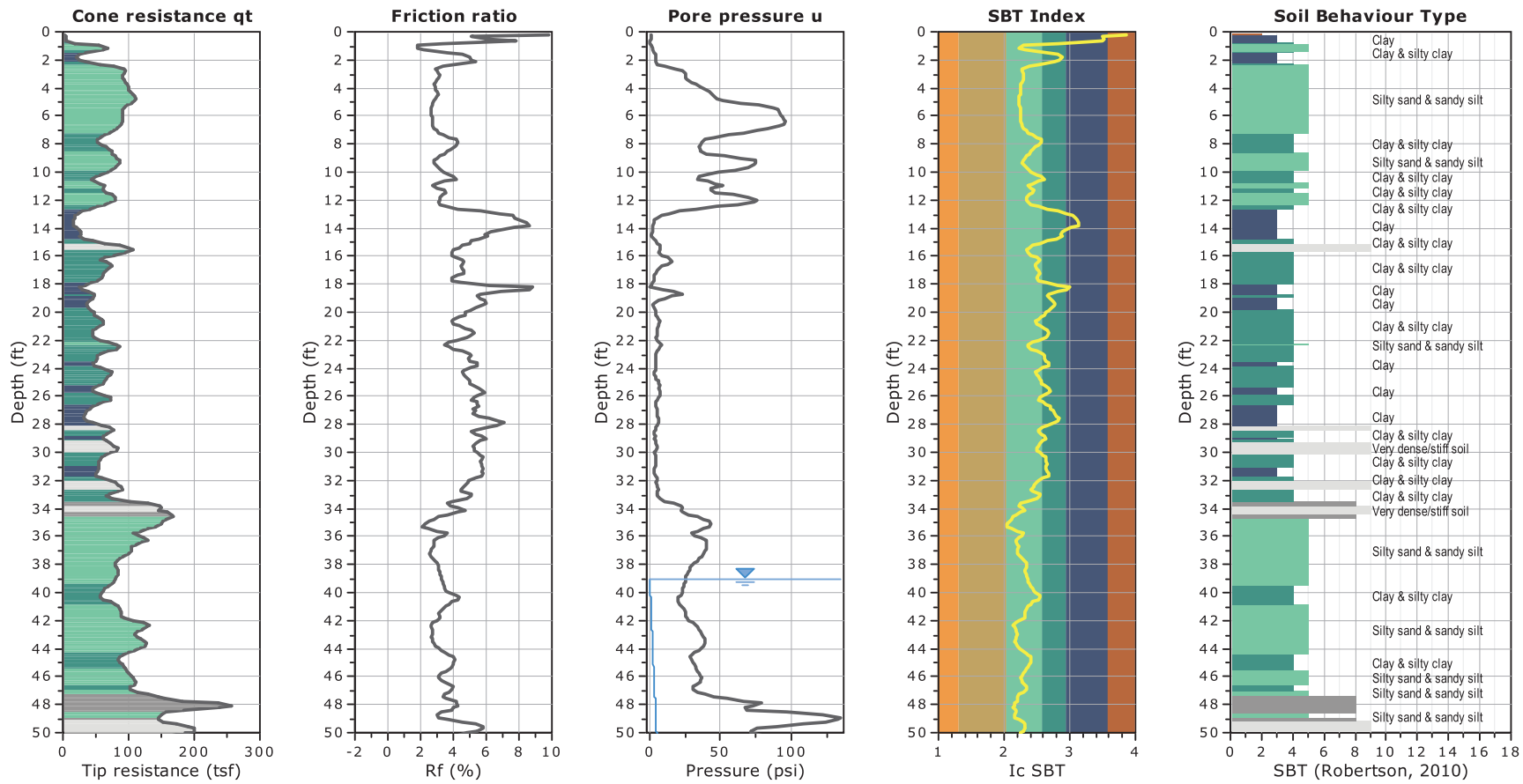
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-1

Date 04/11/22	Project No. 22-2171	Figure A-1



Total depth: 50.9 ft, Date: February 28, 2022
Depth to Groundwater: 39 feet (measured with weighted tape)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

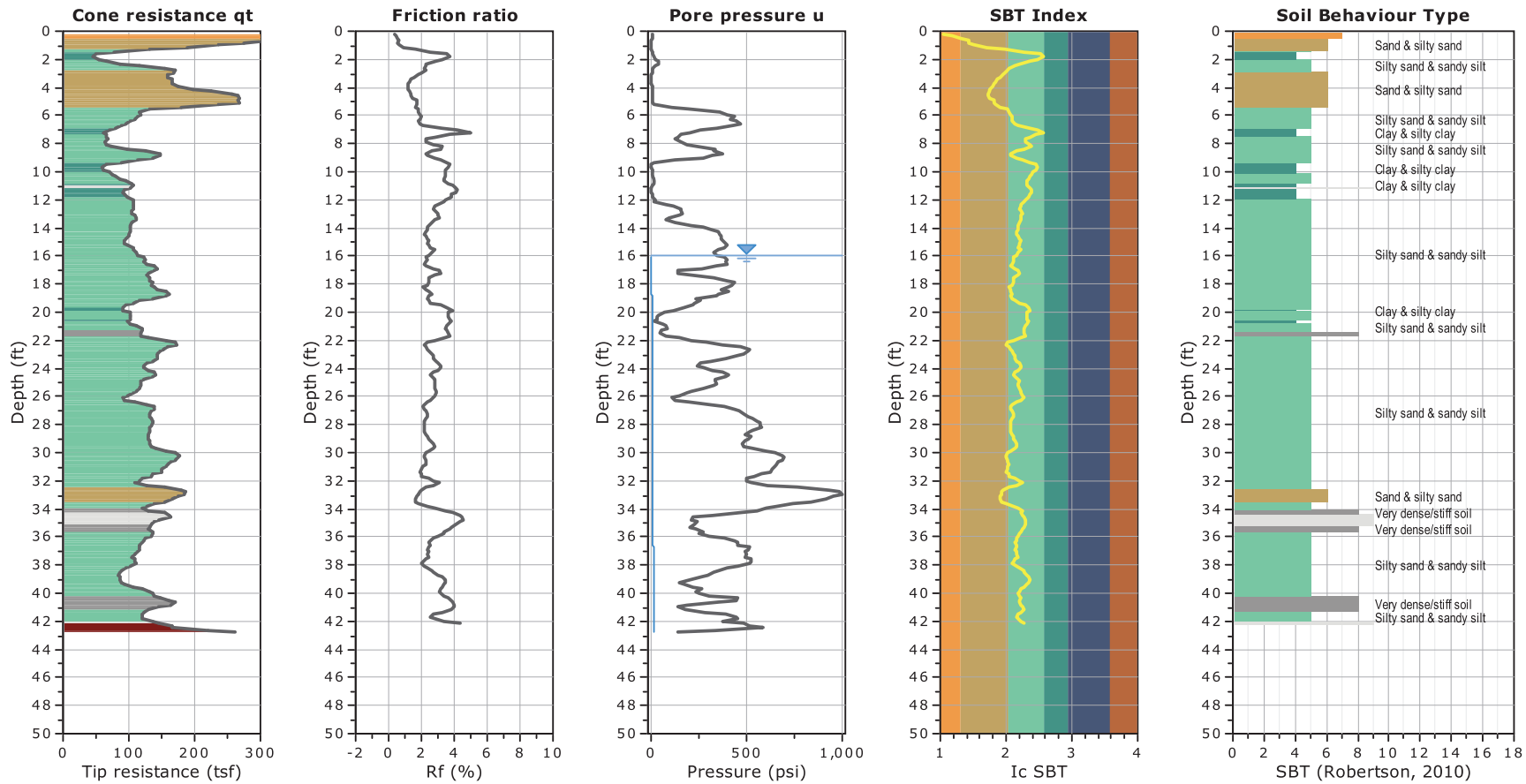
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-2

Date 04/01/22	Project No. 22-2171	Figure A-2



Total depth: 42.8 ft, Date: February 28, 2022
Depth to Groundwater: 16 feet (measured with weighted tape)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

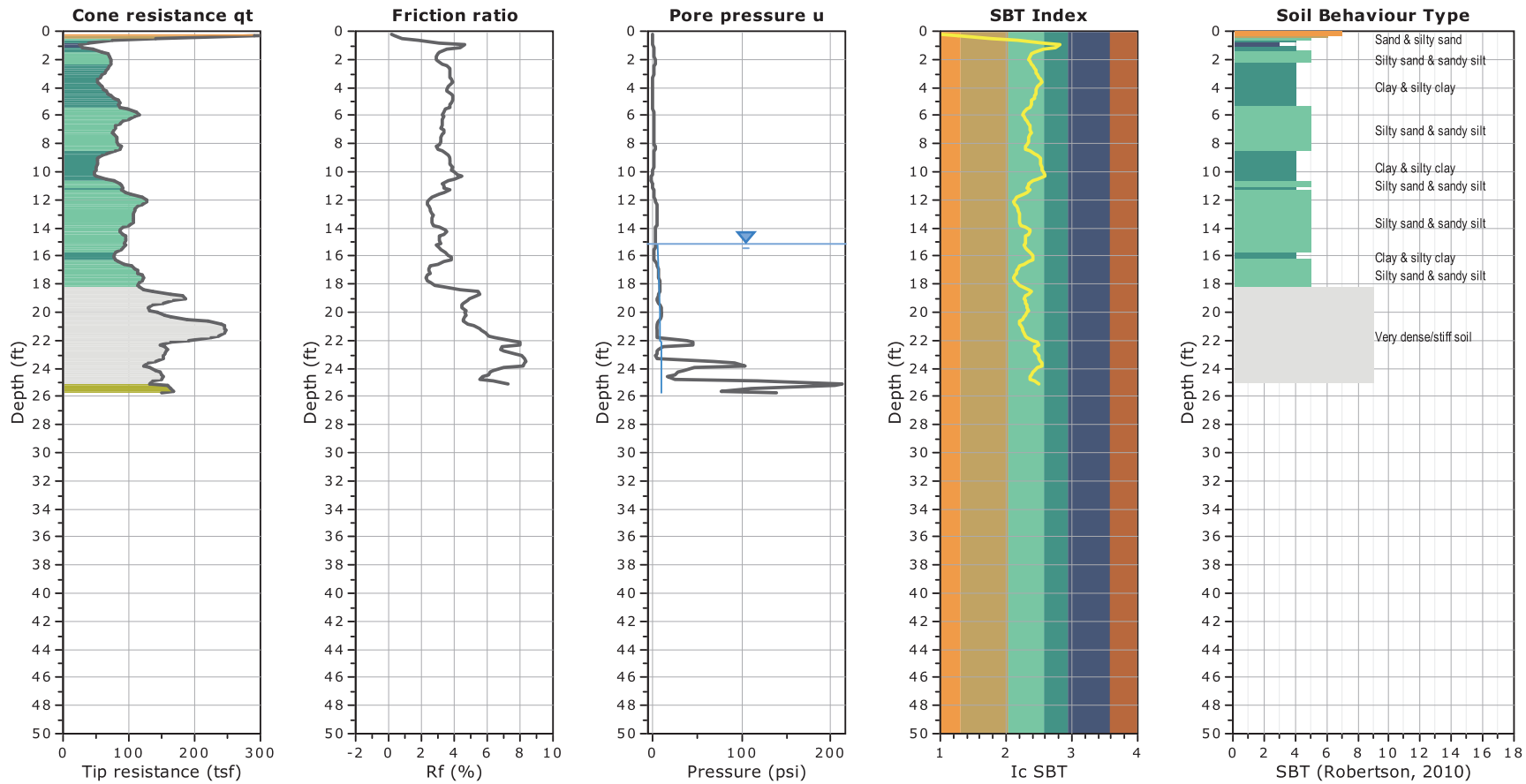
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-3

Date 04/01/22	Project No. 22-2171	Figure A-3



Total depth: 25.8 ft, Date: February 28, 2022
Depth to Groundwater: 15.3 feet (based on groundwater level in Boring B-2)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

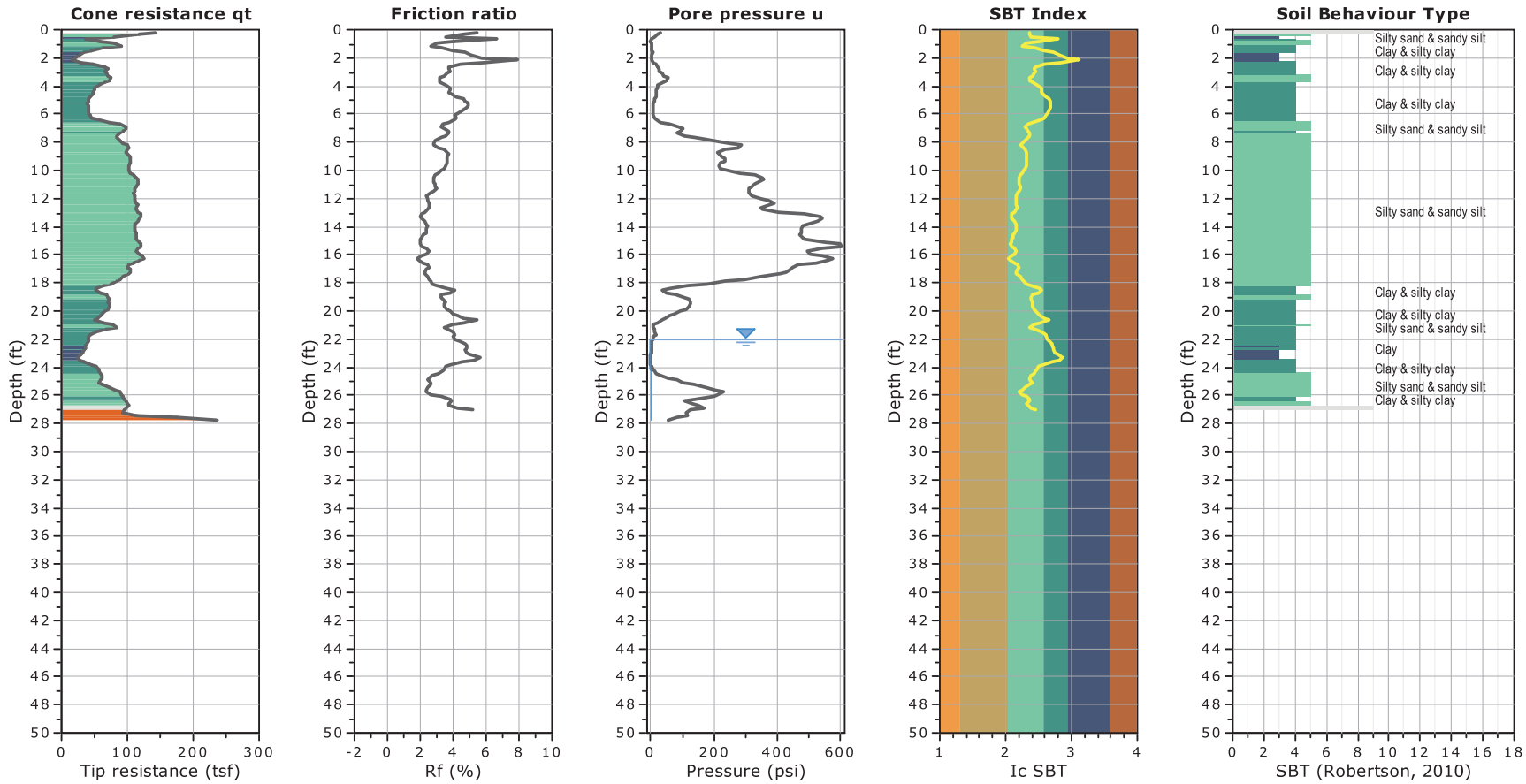
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-4

Date 04/11/22	Project No. 22-2171	Figure A-4



Total depth: 27.7 ft, Date: February 28, 2022
Depth to Groundwater: 22 feet (measured with weighted tape)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

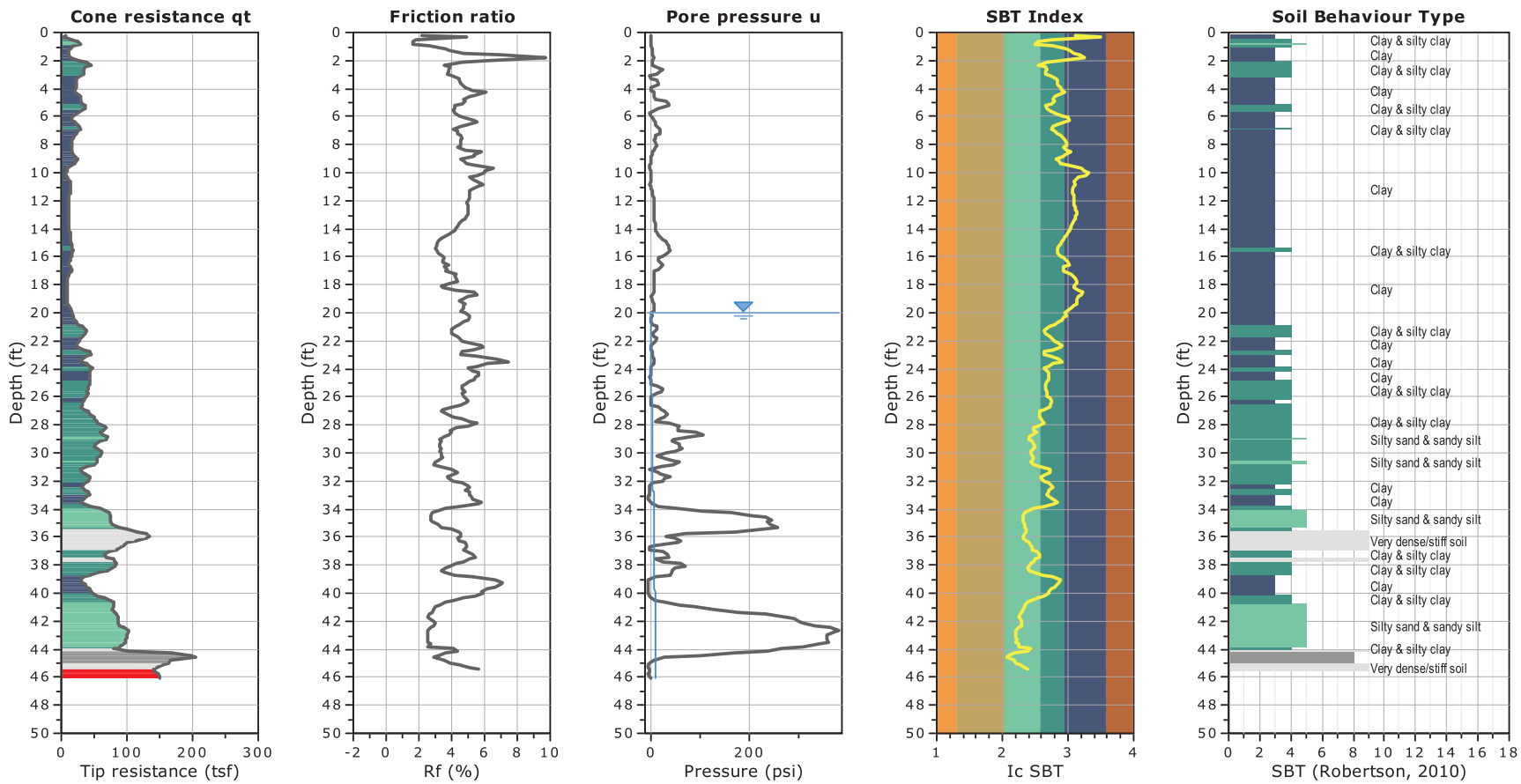
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-5

Date 04/01/22	Project No. 22-2171	Figure A-5



Total depth: 46.1 ft, Date: February 28, 2022
Depth to Groundwater: 20 feet (measured with weighted tape)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

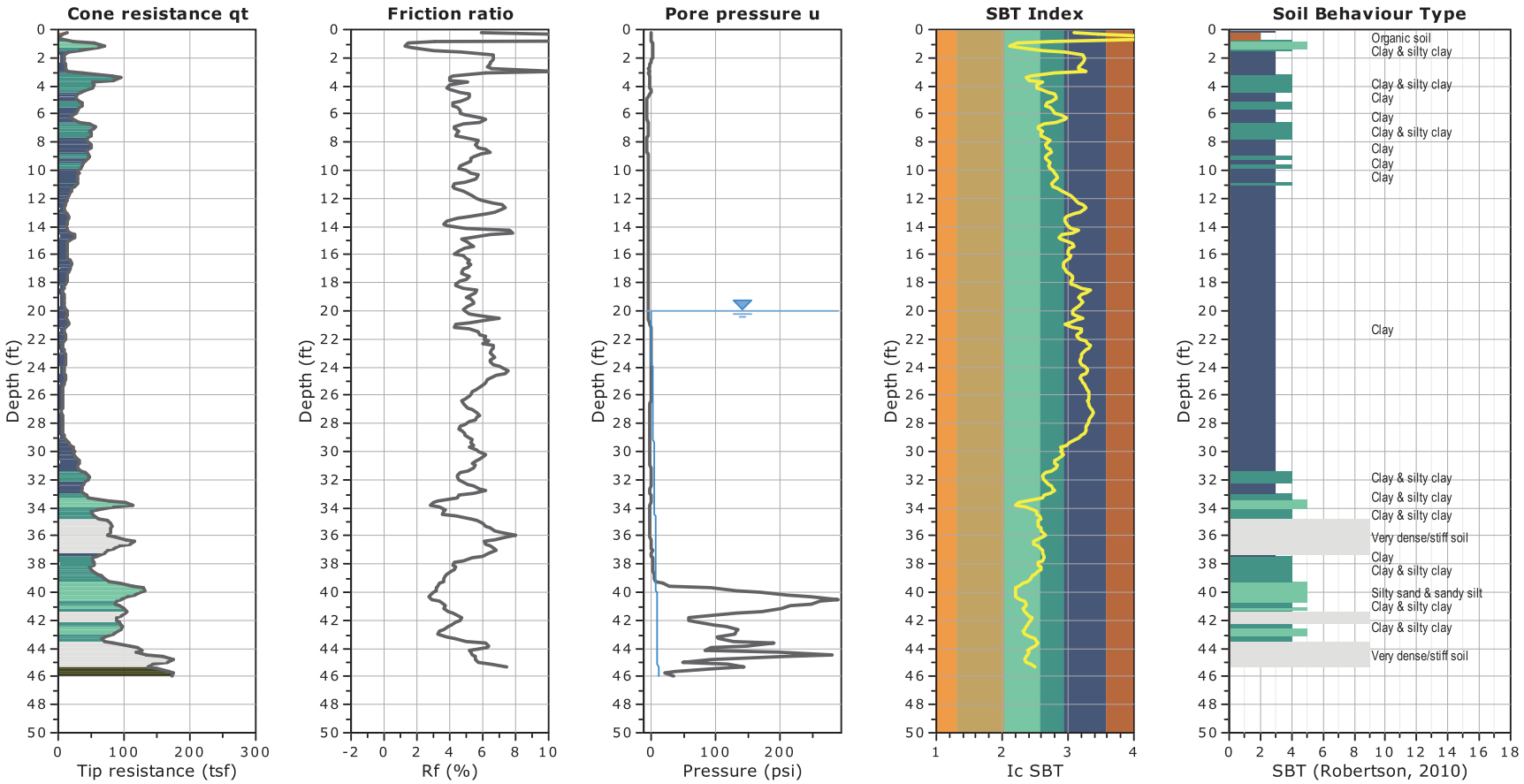
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-6

Date 04/01/22	Project No. 22-2171	Figure A-6



Total depth: 45.9 ft, Date: February 28, 2022
Depth to Groundwater: 20 feet (measured with weighted tape)
Cone Operator: Middle Earth Geo Testing, Inc.

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravelly sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-7

Date 04/01/22	Project No. 22-2171	Figure A-7

PROJECT: **1500 FITZGERALD DRIVE**
Pinole, California

Log of Boring B-1

Boring location:	See Site Plan, Figure 2	Logged by:	R. Ford
Date started:	03/15/2022	Date finished:	03/15/2022
Drilling method:	4-inch-diameter solid-stem flight auger	Drilled by:	Benevent Building, LLC
		Rig:	Portable Hydraulic Unit
Hammer weight/drop:	140 lbs./30 inches	Hammer type:	Rope & cathead safety hammer

Sampler: Modified California (MC), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES: Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION		LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content,%	Dry Density Lbs/Cut Ft
1–2	MC		7 10 14	17	CL	SANDY CLAY (CL) olive, very stiff, moist							
3–4	SPT		5 6 8	17		LL = 41, PI = 19; see Appendix B Particle Size Distribution; see Appendix B					63	24.0	
					SC	CLAYEY SAND (SC) mottled orange-brown and olive, medium dense, moist							
5–6	MC		10 20 27	33	CL	SANDY CLAY (CL) olive, hard, moist, trace fine subangular gravel	FILL					17.1	112
8–9	SPT		7 12 12	29	SC	CLAYEY SAND (SC) yellow-brown and olive, medium dense, moist, fine sand, trace fine subrounded gravel							
10–11	SPT		8 11 12	28									
12–13	SPT		4 5 8	16									
					CH	CLAY (CH) dark brown, very stiff, moist							
15–16	MC		7 10 11	15		dark brown and gray LL = 77, PI = 51; see Appendix B						33.3	88
19–20					CL	SANDY CLAY (CL) olive-brown, hard, moist, completely weathered siltstone/claysonte (03/15/2022; 12:35 PM)	RESIDUAL SOIL						
20–21	SPT		12 18 20	46									
25–26	SPT		9 14 27	49		(03/15/2022; 9:10 AM)							
30–31	SPT		11 22 34	67		SANDSTONE olive-brown, soft, friable, moderately weathered	BEDROCK						

Boring terminated at a depth of 31.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at a depth of 25 feet and 19.7 feet during drilling.

[1] MC and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.7 and 1.2, respectively, to account for sampler type and hammer energy.

ROCKRIDGE GEOTECHNICAL

Project No.: 22-2171 | Figure: A-8

PROJECT: **1500 FITZGERALD DRIVE**
Pinole, California

Log of Boring B-2

Boring location:	See Site Plan, Figure 2	Logged by:	R. Ford
Date started:	03/15/2022	Date finished:	03/15/2022
Drilling method:	4-inch-diameter solid-stem flight auger	Drilled by:	Benevent Building, LLC
		Rig:	Portable Hydraulic Unit
Hammer weight/drop:	140 lbs./30 inches	Hammer type:	Rope & cathead safety hammer

Sampler: Modified California (MC), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES: Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content,%	Dry Density Lbs/Cut Ft
						3-4 inches of asphalt concrete						
						6 inches of aggregate base						
1					CL	SANDY CLAY (CL) FILL						
2	MC		13 25 36	43		gray and brown, hard, dry to moist					22.9	105
3						SILTSTONE						
4	SPT		11 17 20	44		olive, low hardness, friable, moderately weathered Soil Corrosivity Test; see Appendix B with red oxidation						
5												
6	SPT		14 20 24	53								
7												
8											22.8	
9	SPT		11 18 25	52		SILTSONTE/CLAYSTONE LL = 47, PI = 21; see Appendix B						
10						BEDROCK						
11	SPT		11 13 18	37		yellow-red oxidation						
12												
13	MC		29 39/6"	27/6"		dark green-gray to blue-gray LL = 47, PI = 22; see Appendix B					20.1	88
14												
15						(03/15/2022; 12:45 PM)						
16	SPT		17 24 29	64		dark brown and gray						
17												
18												
19												
20						(03/15/2022; 9:10 AM)						
21	SPT		19 31 50/5"	97/ 11"		SILTSTONE olive with yellow-red oxidation, low hardness, friable, moderately weathered						
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Boring terminated at a depth of 21.4 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at a depth of 20 feet and 15 feet during drilling.

[1] MC and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.7 and 1.2, respectively, to account for sampler type and hammer energy.

ROCKRIDGE GEOTECHNICAL

Project No.: 22-2171

Figure: A-9

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with California or Modified California split-barrel sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

Sonic

SAMPLER TYPE

C — Core barrel

CA — California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M — Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O — Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT — Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

MC — Modified California sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT — Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST — Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

CLASSIFICATION CHART

Date 04/01/22 | Project No. 22-2171 | Figure A-10

I FRACTURING

Intensity	Size of Pieces in Feet
Very little fractured	Greater than 4.0
Occasionally fractured	1.0 to 4.0
Moderately fractured	0.5 to 1.0
Closely fractured	0.1 to 0.5
Intensely fractured	0.05 to 0.1
Crushed	Less than 0.05

II HARDNESS

1. **Soft** - reserved for plastic material alone.
2. **Low hardness** - can be gouged deeply or carved easily with a knife blade.
3. **Moderately hard** - can be readily scratched by a knife blade; scratch leaves a heavy trace of dust and is readily visible after the powder has been blown away.
4. **Hard** - can be scratched with difficulty; scratch produced a little powder and is often faintly visible.
5. **Very hard** - cannot be scratched with knife blade; leaves a metallic streak.

III STRENGTH

1. **Plastic** or very low strength.
2. **Friable** - crumbles easily by rubbing with fingers.
3. **Weak** - an unfractured specimen of such material will crumble under light hammer blows.
4. **Moderately strong** - specimen will withstand a few heavy hammer blows before breaking.
5. **Strong** - specimen will withstand a few heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.
6. **Very strong** - specimen will resist heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.

IV WEATHERING - The physical and chemical disintegration and decomposition of rocks and minerals by natural processes such as oxidation, reduction, hydration, solution, carbonation, and freezing and thawing.

D. Deep - moderate to complete mineral decomposition; extensive disintegration; deep and thorough discoloration; many fractures, all extensively coated or filled with oxides, carbonates and/or clay or silt.

M. Moderate - slight change or partial decomposition of minerals; little disintegration; cementation little to unaffected. Moderate to occasionally intense discoloration. Moderately coated fractures.

L. Little - no megascopic decomposition of minerals; little of no effect on normal cementation. Slight and intermittent, or localized discoloration. Few stains on fracture surfaces.

F. Fresh - unaffected by weathering agents. No disintegration of discoloration. Fractures usually less numerous than joints.

ADDITIONAL COMMENTS:

V CONSOLIDATION OF SEDIMENTARY ROCKS: usually determined from unweathered samples. Largely dependent on cementation.

U = unconsolidated
P = poorly consolidated
M = moderately consolidated
W = well consolidated

VI BEDDING OF SEDIMENTARY ROCKS

Splitting Property	Thickness	Stratification
Massive	Greater than 4.0 ft.	very thick-bedded
Blocky	2.0 to 4.0 ft.	thick bedded
Slabby	0.2 to 2.0 ft.	thin bedded
Flaggy	0.05 to 0.2 ft.	very thin-bedded
Shaly or platy	0.01 to 0.05 ft.	laminated
Papery	less than 0.01	thinly laminated

1500 FITZGERALD DRIVE
Pinole, California

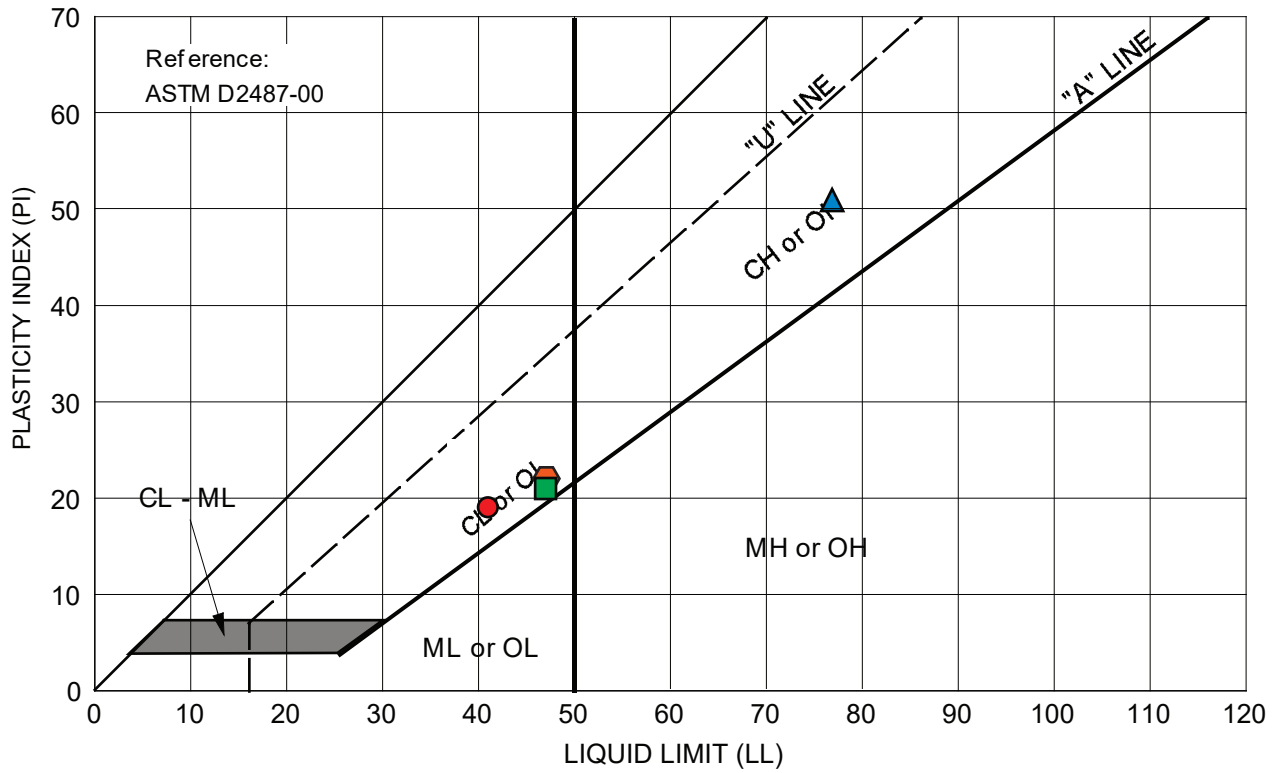
ROCKRIDGE GEOTECHNICAL

PHYSICAL PROPERTIES CRITERIA FOR ROCK DESCRIPTIONS

Date 04/06/22	Project No. 22-2171	Figure A-11

APPENDIX B

Laboratory Test Results



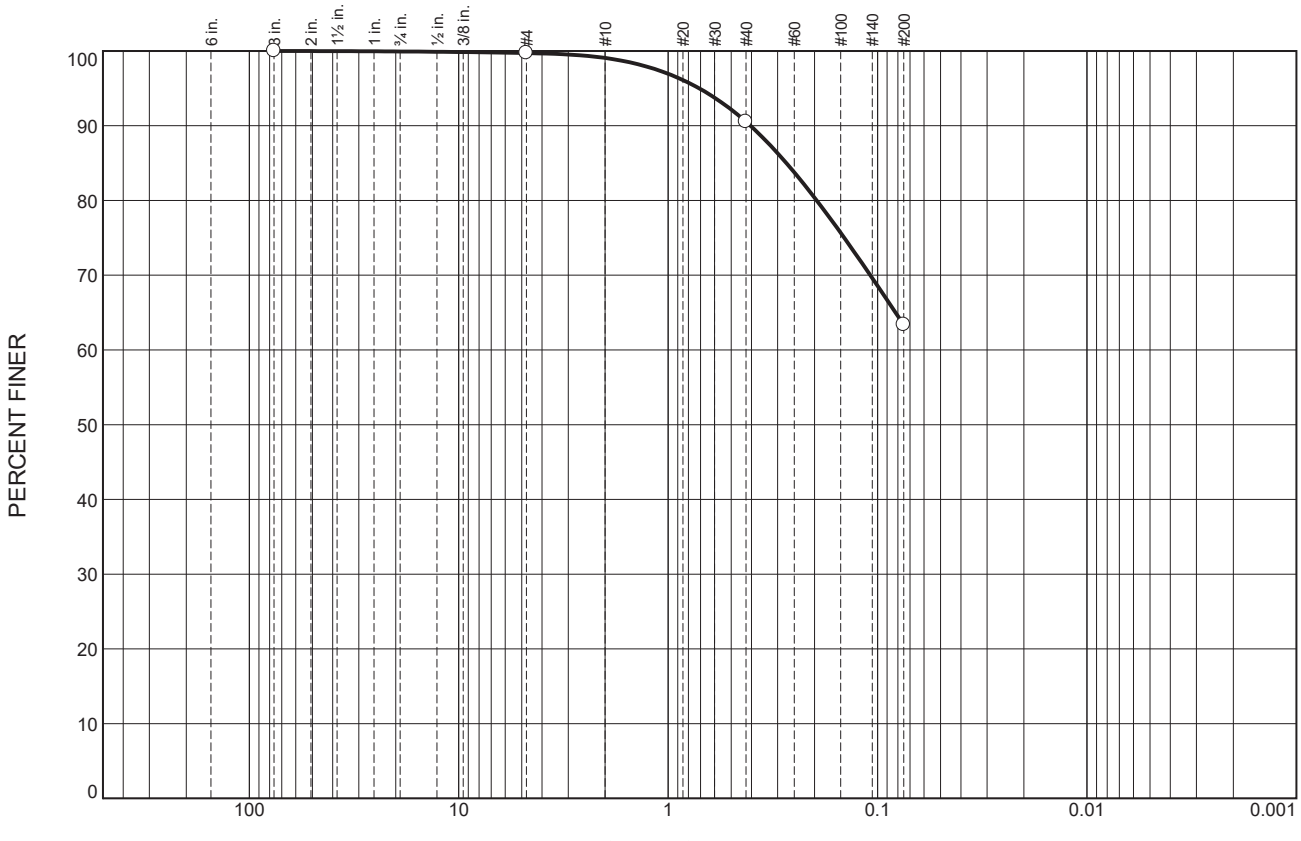
Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-1 at 3.0 feet	SANDY CLAY (CL), olive	24.0	41	19	63
▲	B-1 at 16.0 feet	CLAY (CH), dark brown and gray	33.3	77	51	--
■	B-2 at 8.0 feet	SILTSTONE/CLAYSTONE, olive with red oxidation	22.8	47	21	--
⬢	B-2 at 13.0 feet	SILTSTONE/CLAYSTONE, dark green-gray to blue-gray	20.1	47	22	--

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

PLASTICITY CHART

Date 04/11/22 | Project No. 22-2171 | Figure B-1



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.1	0.2	0.6	8.6	27.1	63.4	

SOIL DATA

SYMBOL	SOURCE	DEPTH (ft.)	Material Description	USCS
○	B-1	3.0'	SANDY CLAY, olive	CL

1500 FITZGERALD DRIVE
Pinole, California

ROCKRIDGE GEOTECHNICAL

PARTICLE SIZE DISTRIBUTION REPORT

Date 04/07/22 | Project No. 22-2171 | Figure B-2

Project X
Corrosion Engineering
Corrosion Control – Soil, Water, Metallurgy Testing Lab

REPORT S220318I

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM G51	ASTM G200	SM 4500-D	ASTM D4327	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd	Minimum	**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Fluoride** F_2^{--}	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-1: SANDY CLAY (CL), olive	1.5	34.5	0.0034	6.9	0.0007	1,675	1,340	8.8	159	0.09	0.3	13.9	0.03	67.5	9.4	10.7	7.0	3.5	0.2
B-2: SILTSTONE, olive	3	60.7	0.0061	6.2	0.0006	2,613	1,474	8.4	146	0.57	0.2	9.3	0.06	85.9	17.2	7.5	5.4	2.9	11.7

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract
PPM = mg/kg (soil) = mg/L (Liquid)

29990 Technology Dr., Suite 13, Murrieta, CA 92563 Tel: 213-928-7213 Fax: 951-226-1720
www.projectxcorrosion.com

1500 FITZGERALD DRIVE
Pinole, California

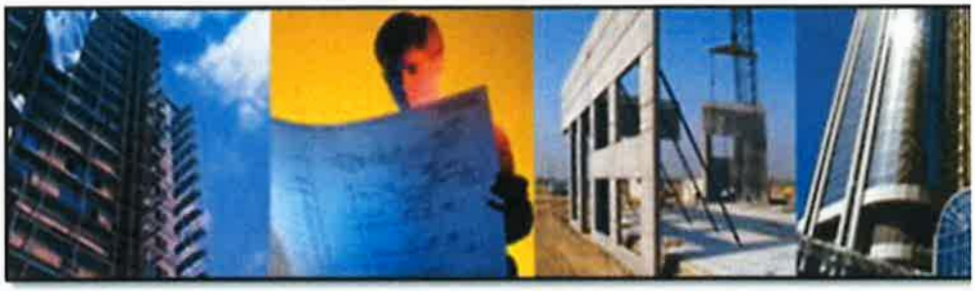
ROCKRIDGE GEOTECHNICAL

SOIL CORROSIVITY TEST RESULTS

Date 04/07/22 | Project No. 22-2171 | Figure B-3

Appendix E

PARTNER
Engineering and Science, Inc.



PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Pinole Mixed Use
1500 Fitzgerald Drive
Pinole, California 94564

Report Date: February 3, 2022
Partner Project No. 22-353963.1

Prepared for:

Retail Opportunity Investments Corp. (ROIC)
11250 El Camino Real, Suite 200
San Diego, California 92130

PARTNER
Engineering and Science, Inc.

February 3, 2022

Mr. Richard Schoebel
Retail Opportunity Investments Corp. (ROIC)
11250 El Camino Real, Suite 200
San Diego, California 92130

Subject: Phase I Environmental Site Assessment
Pinole Mixed Use
1500 Fitzgerald Drive
Pinole California 94564
Partner Project No. 22-353963.1

Dear Mr. Schoebel:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included research of the use and history of the subject property and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. Due to access restrictions imposed by the City of Pinole, this assessment did not include observations of interior areas of the subject property. An assessment was made with these limitations, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (619) 925-9672.

Sincerely,

Mark Lambson
Principal

2154 Torrance Blvd., Suite 200, Torrance, CA 90501 ◊ Phone 800-419-4923 ◊ Fax 866-928-7418

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Retail Opportunity Investments Corp. (ROIC) for the property located at 1500 Fitzgerald Drive in Pinole, Contra Costa County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide Retail Opportunity Investments Corp. (ROIC) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

Property Description

The subject property is located on the south side of Fitzgerald Drive, approximately 850 feet west of Appian Way within a commercial area of Contra Costa County. Please refer to the table below for further description of the subject property:

Subject Property Data	
Address(es):	1500 Fitzgerald Drive, Pinole, California
Property Use:	Commercial/Vacant
Land Acreage (Ac):	6.86 Ac
Number of Buildings:	One
Number of Floors:	One
Gross Building Area (SF):	90,370 SF
Date of Construction:	1981
Assessor's Parcel Number (APN):	426-391-010-3
Type of Construction:	Concrete Tilt-Up
Current Tenants:	Vacant
Site Assessment Performed By:	Alvaro Dominguez of Partner
Site Assessment Conducted On:	January 21, 2022

The subject property building is currently vacant. Former onsite operations consisted of commercial retail of home goods. In addition to the current structure, the subject property is also improved with asphalt-paved parking areas, associated landscaping, and drainage features.

According to available historical sources, the subject property was formerly undeveloped as early as 1895 and developed with the current structure in 1981. Tenants documented on the subject property include K-Mart Store (1985-2020); Olan Mills Portrait Studio (2001-2012); Papa Murphy's Pizza (2001); and Keyme (2016-2020). The subject property is currently vacant.

The immediately surrounding properties consist of Motel 6 to the north across Fitzgerald Drive; Pinole Vista Shopping Center parking lot to the south beyond which is a single-family housing development; Pinole Vista Shopping Center parking lot followed by shopping center commercial buildings including restaurants, beauty supply store, and supermarket to the east; and a Best Buy store to the west.

According to previous subsurface investigations conducted on a nearby property (1271 Tara Hills Drive closed LUST Case T0601300234, located approximately 695 feet north and hydraulically cross/down

gradient of the subject property), depth to groundwater in the vicinity of the subject property is inferred to range from approximately 29 to 43 feet below ground surface (bgs). Based on the topography of the land where the subject property is located, groundwater flow is inferred to be toward the northeast.

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during this assessment:

- Partner did not identify any recognized environmental conditions during this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during this assessment:

- Partner did not identify any controlled recognized environmental conditions during this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during this assessment:

- The subject property, identified as K-Mart Enterprises at 1500 Fitzgerald Drive, is listed in the SWEEPS UST database as containing one inactive 1,000-gallon UST (ID 07-000-014432-000001) for waste oil, listed as removed on June 26, 1990. No relevant information on the Historical UST listing was found in the ERIS Data report. State Water Resources Control Board (SWRCB) historical UST records indicate a 500-gallon carbon steel single-wall UST was installed in 1981. A Contra Costa County Application Permit to Operate a UST documents the presence of a 1,000-gallon steel UST for waste oil installed in 1981. A tank deposition record prepared by JC Bateman Petroleum Services on August 20, 1989, documented the removal of a 1,000-gallon steel UST for waste oil from the subject property. Chemical analyses of soil confirmation samples documented the presence of Total Petroleum Hydrocarbons as oil and grease (TPH-og) at concentrations as high as 78 parts per million (ppm), and the presence of TPH as diesel (TPH-d) and as gasoline (TPH-g), at concentrations below 10 ppm. A Contra Costa County Health Services Department (CCCSHSD) letter dated March 20, 1990, confirms the subsurface characterization was adequate and indicates no further investigation was required regarding the removed UST. The available information, including the lack of CCCHSD documents verifying the presence of a 500-gallon UST at the subject property, suggests that only one UST was installed in this site. Based on the available information, including the documented removal of the UST and low residual concentration of chemicals of concern, the tendency of petroleum hydrocarbons in the subsurface to degrade naturally over time, the time elapsed since the unauthorized release was documented,

and the no further action letter issued by the CCCHSD on March 20, 1990, this listing is not expected to represent a significant environmental concern. Based on the documented former presence of a UST and its closed regulatory oversight, the former presence of the UST is identified as a historical recognized environmental condition (HREC).

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during this assessment:

- The subject property was formerly equipped with one 1,000-gallon UST, removed in 1989. Though unlikely, it is possible that elevated concentrations of chemicals of concern may be encountered during planned redevelopment activities.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 1500 Fitzgerald Drive in Pinole, Contra Costa County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property; however, a historical recognized environmental condition and environmental issues were identified. Based on the conclusions of this assessment, Partner recommends the following:

- In the event that excavation or redevelopment activities are planned at the subject property, if impacted soils are encountered from the former UST they should be managed in accordance with applicable regulations.

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1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at 1500 Fitzgerald Drive in Pinole, Contra Costa County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the subject property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in

order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment, or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

Retail Opportunity Investments Corp. (ROIC) engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of Retail Opportunity Investments Corp. (ROIC). Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees,

vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

1.5 Limiting Conditions

The findings and conclusions contain the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Due to access restrictions imposed by subject property management and/or ownership, this assessment did not include observations of interior areas of the subject property. Based on information obtained from other sources, including interviews with individuals knowledgeable of the use and history of the subject property and review of documentation associated with the subject property (as discussed in Sections 3.0, 4.0 and 5.0), this data gap is not expected to alter the findings of this assessment.
- Interviews with past owners, operators and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.
- Partner requested information relative to deed restrictions and environmental liens, a title search, and completion of the AAI User Questionnaire from the Report User. This information was not provided at the time of the assessment.
- Partner submitted Freedom of Information Act (FOIA) requests to the City of Pinole Building, Fire and Planning Departments for information pertaining to hazardous substances, underground storage tanks, releases, inspection records, etc. for the subject property and/or adjacent properties. As of this writing, these agencies have not responded to Partner's request. Based on information obtained from other historical sources, this limitation is not expected to alter the overall findings of this assessment.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property at 1500 Fitzgerald Drive in Pinole, California is located on the south side of Fitzgerald Drive, approximately 850 feet west of Appian Way. According to the Contra Costa County Assessor, the subject property is legally I with Assessor Parcel Number 426-391-010-3. Ownership is currently vested in ROIC Pinole Vista LLC since 2011.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property is currently vacant. Former onsite operations consisted of the retail of home goods and costumes. The subject property consists of one one-story building located on the west side of the property. In addition to the current structure, the subject property is also improved with asphalt-paved parking areas, associated landscaping, and drainage features.

The subject property is designated for commercial development by the City of Pinole.

The subject property was identified as a RCRA NonGen/NLR, FINDS/FRS, CONTRA COSTA COUNTY SITE LISTING, HAZNET, HISTORICAL UST, and SWEEPS UST site in the regulatory database report, as further discussed in Section 4.2.

2.3 Current Use of Adjacent Properties

The subject property is located within a commercial area of Contra Costa County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties	
North:	Fitzgerald Drive beyond which is Motel 6 (1501 Fitzgerald Drive)
Northeast:	Good Year Tire Center (1520 Fitzgerald Drive)
South:	Single family residences (1123-1165 Mitchell Way)
East:	Pinole Vista Shopping Center commercial buildings (1502-1550 Fitzgerald Drive)
West:	Best Buy (1490 and Fitzgerald Drive)

The adjacent property to the northeast was identified as a CERS HAZARDOUS WASTE, CERS, RCRA NonGen/NLR, CONTRA COSTA COUNTY LISTINGS, HWTS, FINDS, ECHO, HAZNET, and SWEEPS UST site in the regulatory database report of Section 4.2.

2.4 Physical Setting Sources

2.4.1 Topography

The United States Geological Survey (USGS) *Richmond, California* Quadrangle 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 212 feet above mean sea level (MSL). The contour lines in the subject property area indicate the area is sloping moderately toward the north-northeast. The subject property is depicted on the 2018 map within a fully urbanized area of the City of Pinole.

A copy of the most recent topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

According to topographic map interpretation, the direction of groundwater in the vicinity of the subject property is inferred to flow toward the northeast. The nearest surface water in the vicinity of the subject property is El Sobrante Reservoir located approximately 5,000-feet southeast of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

According to available information, a public water system operated by the East Bay Municipal Utility District (EBMUD) serves the subject property vicinity. According to the EBMUD 2020 Annual Water Quality Report, shallow groundwater beneath the subject property is not utilized for domestic purposes. EBMUD's sources of public water for the City of Pinole are delivered from the Mokelumne watershed.

According to previous subsurface investigations conducted on a nearby property (1271 Tara Hills Drive closed LUST Case T0601300234, located approximately 695 feet north and hydraulically cross/down gradient of the subject property), depth to groundwater in the vicinity of the subject property is inferred to range from approximately 29 to 43 feet below ground surface (bgs). Based on the topography of the land where the subject property is located, groundwater flow is inferred to the northeast

2.4.3 Geology/Soils

The subject property is situated within the California Coast Ranges, a northwest trending mountain range (2,000 to 4,000, occasionally 6,000 feet elevation above sea level) and valleys. The ranges and valleys trend northwest, subparallel to the San Andreas Fault. Strata dip beneath alluvium of the Great Valley. To the west is the Pacific Ocean. The coastline is uplifted, terraced and wavecut. The Coast Ranges are composed of thick Mesozoic and Cenozoic sedimentary strata.

Based on information obtained from the USDA Natural Resources Conservation Service Web Soil Survey online database, the subject property is mapped as Los Osos clay loam, 15 to 30 percent slopes. Los Osos clay loam soils are described as derived from residuum weathered sandstone and shale, well drained with high runoff class, and classified as not prime farmland

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Number 06013C0231G, dated March 21, 2017, the subject property appears located in Zone X, an area located outside of the 100-year and 500-year flood plains.

A copy of the reviewed flood map is not included in Appendix B of this report.

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. A chronological listing of the historical data found is summarized in the table below:

Historical Use Information		
Period/Date	**Source**	**Description/Use**
1895-1974	Aerial Photographs, Topographic Maps	Undeveloped/Native land
1981- Present	Aerial Photographs, Building Records, City Directories, Onsite Observations	Commercial Retail

Tenants on the subject property include K-MART Store (1985-2020); Olan Mills Portrait Studio (2001-2012); Papa Murphy's Pizza (2001); and KEYME (2016-2020). The subject property is currently vacant. Due to structural hazards, the City of Pinole has implemented access restrictions to the interior of the building. No potential environmental concerns were identified in association with the current or former use of the subject property.

3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Data Resources (EDR) or Environmental Risk Information System (ERIS) on January 24, 2022. The following was observed on the subject property and adjacent properties during the aerial photograph review:

Date: 1939, 1946, 1948	*Scale: 1"=500'*
Subject Property:	Appears to be undeveloped (grassland, woodland, dirt)
North:	Appears to be undeveloped land
South:	Appears to be undeveloped land
East:	Appears to be undeveloped land
West:	Appears to be undeveloped land

Date: 1958, 1968, 1974	*Scale 1"=500'*
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	A dwelling can be observed adjacent to the southwest corner
East:	No significant changes visible
West:	No significant changes visible

Date: 1982	*Scale: 1"=500'*
Subject Property:	Developed with the existing building and parking lot
North:	No significant changes visible
South:	Developed with the existing residential complex
East:	Developed with the existing Pinole Plaza shopping center
West:	No significant changes visible

Date: 1993, 2005, 2010, 2012, 2014, 2016, 2018, 2020	*Scale: 1"=500'*
Subject Property:	No significant changes visible
North:	Developed with the existing tire center and with the motel across Fitzgerald Drive
South:	No significant changes visible

Date: 1982	Scale: 1"=500'
East:	No significant changes visible
West:	Developed with the existing commercial building

Copies of select aerial photographs are included in Appendix B of this report.

3.2 Fire Insurance Maps

Sanborn map coverage was not available for the subject property.

3.3 City Directories

Partner reviewed historical city directories obtained from Environmental Data Resources (EDR) or Environmental Risk Information System (ERIS) on January 25, 2022, for past names and businesses that were listed for the subject property and adjacent properties. The findings are presented in the following table:

City Directory Search for 1500 Fitzgerald Drive (Subject Property)

Year(s)	Occupant Listed
1985-2020	K-MART Store (1500 Fitzgerald Drive)
2001-2012	Olan Mills Portrait Studio (1500 Fitzgerald Drive)
2001	Papa Murphy's Pizza (1500 Fitzgerald Drive)
2016	Pinole Plaza (1500 Fitzgerald Drive)
2016-2020	KEYME (1500 Fitzgerald Drive)

Based on the city directory review, no environmentally sensitive listings were identified for the subject property address.

City Directory Search for Adjacent Properties

Year(s)	Occupant Listed
1987-2005	Long John Silver (1541 Fitzgerald Drive)
2014	Chase Bank (1541 Fitzgerald Drive)
XXXX	XXX (Address)
1987-1991	US Navy Recruiting Station (1520 Fitzgerald Drive)
1987-2008	Goodyear Tire Center (1520 Fitzgerald Drive)
2012	Pinole Vista Shopping Center (1520 Fitzgerald Drive)
2012-2020	Jarvis and Jarvis Inc. (1520 Fitzgerald Drive)
2016-2020	Pinole Goodyear (1520 Fitzgerald Drive)
1991-2020	Motel 6 (1501 Fitzgerald Drive)
1985-1987	Alpha Beta Co., Skaggs Alpha Beta (1530 Fitzgerald Drive)
1991-2020	Lucky Food Center/Lucky Supermarket (1530 Fitzgerald Drive)
2008	Albertson's (1530 Fitzgerald Drive)
2008-2012	Bank of America (1530 Fitzgerald Drive)
2008-2020	Sav on Drugs/Sav on Pharmacy (1530 Fitzgerald Drive)
1985-1991	Homestead Savings (1540 Fitzgerald Drive)
2001-2020	Starbucks Coffee (1540 Fitzgerald Drive)
1996-2020	Best Products/Best Buy (1490 Fitzgerald Drive)
1987-2001	Century Theaters (1492 Fitzgerald Drive)
2006-2020	Auto Zone (1475 Fitzgerald Drive)

According to the city directory review, the adjacent property to the north has been occupied by an auto repair facility since 1987. The environmental significance of this listing is discussed in Section 4.2.

Copies of reviewed city directories are included in Appendix B of this report.

3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from Environmental Data Resources (EDR) or Environmental Risk Information System (ERIS) on January 24, 2022. The following was observed on the subject property and adjacent properties during the topographic map review:

Date:	***1895, 1899, 1915, 1947, 1949***
Subject Property:	Undeveloped grass land
North:	Undeveloped grass land
South:	Undeveloped grass land
East:	Undeveloped grass land
West:	Undeveloped grass land

Date:	***1959, 1968, 1973, 1980***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	Depicted as a fully urbanized area of Pinole
East:	No significant changes visible
West:	No significant changes visible

Date:	***1995, 1996, 2015***
Subject Property:	Depicted as a fully urbanized area of Pinole
North:	Depicted as a fully urbanized area of Pinole
South:	Depicted as a fully urbanized area of Pinole
East:	Depicted as a fully urbanized area of Pinole
West:	Depicted as a fully urbanized area of Pinole

Copies of reviewed topographic maps are included in Appendix B of this report.

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 State Department

Regulatory Agency Data	
Name of Agency:	California Environmental Protection Agency (CalEPA)
Point of Contact:	Online search
Agency Address:	1001 I Street, P.O. Box 2815, Sacramento, California 95812
Agency Phone Number:	(916) 324-9670
Date of Contact:	January 20, 2022
Method of Communication:	Online: https://siteportal.calepa.ca.gov/nsite/
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the CalEPA database.

4.1.2 Health Department

Regulatory Agency Data	
Name of Agency:	Contra Costa County Health Services Hazardous Materials Program
Point of Contact:	Alex McMullen- Clerical Supervisor
Agency Address:	4585 Pacheco Boulevard, Martinez, California
Agency Phone Number:	(925) 335-2233
Date of Contact:	January 20, 2022
Method of Communication:	Email Public Records Request Form to: ccchazmat@hsd.cccounty.us
Summary of Communication:	The Contra Costa County Health Services Hazardous Materials Program office provided copies of documents that include a renewal permit to operate one carbon steel-single walled 1,000-gallon waste oil UST installed in 1981. The permit identifies the subject property as K-Mart Corporation. No date was found on the permit; a Contra Costa County Health Services Department (CCCHSD) Permit to Operate one 1,000-gallon waste oil UST dated September 1, 1986, valid for 5 years, a tank disposition record prepared by SEMCO, dated August 20, 1989, documenting one steel 1,000-gallon waste oil UST was delivered to Modesto CA, and a CCCHSD letter dated March 20, 1990, no further action letter regarding the 1,000-gallon waste oil UST. The information provided by the CCCHSHMP is further discussed in Section 4.2. Copies of the documents are included in Appendix B.

4.1.3 Fire Department

Regulatory Agency Data	
Name of Agency:	Pinole Fire Department (PFD)
Point of Contact:	Pinole City Clerk
Agency Address:	2131 Pear Street Pinole California 94564
Agency Phone Number:	510-724-9000 x 5 x 1
Date of Contact:	January 20, 2022
Method of Communication:	Emailed completed public records request to hiopu@ci.pinole.ca.us

Regulatory Agency Data	
Summary of Communication:	As of the date of this report, Partner has not received a response from the PFD for inclusion in this report.

4.1.4 Air Pollution Control Agency

Regulatory Agency Data	
Name of Agency:	San Francisco Bay Area Air Quality Management District (BAAQMD)
Point of Contact:	Rochelle Reeds
Agency Address:	375 Beale Street Suite 600 San Francisco, California 94105
Agency Phone Number:	(415) 749-4900
Date of Contact:	January 20, 2022
Method of Communication:	Baaqmd.gov/contact-us/request-public-records (2022-01-0164)
Summary of Communication:	No Permits to Operate (PTO), Notices of Violation (NOV), or Notices to Comply (NTC) or the presence of AULs, dry cleaning machines, or USTs were on file for the subject property with the BAAQMD

4.1.5 Regional Water Quality Agency

Regulatory Agency Data	
Name of Agency:	Regional Water Quality Control Board (RWQCB)
Point of Contact:	Online
Agency Address:	1515 Clay Street Suite 1400 Oakland, California 94612
Agency Phone Number:	(510) 622-2300
Date of Contact:	January 20, 2022
Method of Communication:	Online: https://geotracker.waterboards.ca.gov/
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the RWQCB Geotracker database.

4.1.6 Department of Toxic Substances Control

Regulatory Agency Data	
Name of Agency:	California Department of Toxic Substances Control (DTSC)
Point of Contact:	Online
Agency Address:	700 Heinz Avenue Suite 100, Berkeley, California 94710
Agency Phone Number:	(510) 540-3003
Date of Contact:	January 20, 2022
Method of Communication:	Online: https://www.envirostor.dtsc.ca.gov/public/
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the DTSC Envirostor database.

4.1.7 Building Department

Regulatory Agency Data	
Name of Agency:	Pinole Building Division (PBD)
Point of Contact:	Online
Agency Address:	2131 Pear Street Pinole California
Agency Phone Number:	510-724-8912
Date of Contact:	January 20, 2022

Regulatory Agency Data	
Method of Communication:	Online Records Request
Summary of Communication:	As of the date of this report, Partner has not received a response from the PBD for inclusion in this report.

4.1.8 Planning Department

Regulatory Agency Data	
Name of Agency:	Pinole Planning Department (PPD)
Point of Contact:	Online
Agency Address:	2131 Pear Street Pinole California
Agency Phone Number:	510-724-8912
Date of Contact:	January 20, 2022
Method of Communication:	Online Records Request
Summary of Communication:	The City of Pinole zoning map indicates the subject property is within the Appian Way Corridor Specific Plan Area, and zoned commercial mixed use (CMU) development.

4.1.9 Oil & Gas Exploration

Regulatory Agency Data	
Name of Agency:	California Division of Oil, Gas and Geothermal Resources (DOGGR)
Point of Contact:	Online
Agency Address:	801 K Street, MS 24-01 Sacramento, California 95814
Agency Phone Number:	(916) 322-1080
Date of Contact:	January 20, 2022
Method of Communication:	Online: http://www.conservation.ca.gov/dog/Pages/wellfinder.aspx
Summary of Communication:	According to DOGGR, no oil or gas wells are located on or adjacent to the subject property.

4.1.10 Assessor's Office

Regulatory Agency Data	
Name of Agency:	Contra Costa County Assessor (CCCA)
Point of Contact:	Gloria
Agency Address:	2530 Arnold Drive, Suite 100 Martinez, California 94553
Agency Phone Number:	(925) 313-7400
Date of Contact:	January 20, 2022
Method of Communication:	Online: https://ccmap.cccounty.us/Html5/index.html?viewer=CCMAP
Summary of Communication:	According to the CCCA portal, the subject property is identified with assessor parcel number (APN) 426-391-010-3. The property is described as an approximately 6.86-acre lot containing 90,370-square feet building constructed in 1981. Ownership is currently vested in ROIC Pinole Vista LLC since 2011.

4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

Radius Report Data				
Database	**Search Radius (mile)**	**Subject Property**	**Adjacent Properties**	**Sites of Concern**
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	**Y**	N	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	N	N
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	**Y**	N	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	**Y**
State/Tribal Spills	0.50	N	N	**Y**
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
California Environmental Reporting System (CERS)	0.50	N	**Y**	N
Hazardous Waste Tracking System (HAZNET)	0.50	**Y**	N	N

4.2.2 Subject Property Listings

The subject property is identified as a RCRA NonGen/NLR, FINDS/FRS, CONTRA COSTA COUNTY SITE LISTING, HAZNET, HISTORICAL UST, and SWEEPS UST site in the regulatory database report, as discussed below:

- The subject property, identified as K-MART Enterprises at 1500 Fitzgerald Drive, is listed in the SWEEPS UST database as containing one inactive 1,000-gallon UST (ID 07-000-014432-000001) for waste oil, listed as removed on June 26, 1990. No relevant information on the Historical UST

listing was found in the ERIS Data report. State Water Resources Control Board (SWRCB) historical UST records document one 500-gallon carbon steel single-wall UST was installed in 1981. However, all other UST records on the subject property refer to a 1,000-gallon UST. A Contra Costa County Application Permit to Operate a UST, documents the presence of a 1,000-gallon steel UST for waste oil installed in 1981. A tank deposition record prepared by JC Bateman Petroleum Services on August 20, 1989, documented the removal of a 1,000-gallon steel UST for waste oil from the subject property. Chemical analyses of soil confirmation samples documented the presence of Total Petroleum Hydrocarbons oil and grease (TPH-og) at concentrations as high as 78 parts per million (ppm), and the presence of TPH as diesel (TPH-d) and as gasoline (TPH-g), at concentrations below 10 ppm. A Contra Costa County Health Services Department (CCCSHSD) letter dated March 20, 1990, confirms the subsurface characterization was adequate and indicates no further investigation was required regarding the removed UST. Consequently, it appears the SWRCB UST record contains a typo describing the capacity of the UST installed in 1981. Identified as K-MART #3531, the subject property is listed in the 2007 to 2018 HAZNET database for generating waste described as alkaline solution without metals pH>= 12.5, off-specification, aged, or surplus inorganics, off-specification, aged, or surplus organics, liquids with pH<2, liquids with pH<2 with metals, latex waste, unspecified solvent mixture, other inorganic solid waste organics, alkaline solution (pH>12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Based on the available information, including the documented removal of the UST and low residual concentration of petroleum hydrocarbons, the tendency of petroleum hydrocarbons in the subsurface to degrade naturally overtime, the time elapsed since the unauthorized release was documented, and the no further action letter issued by the CCCHSD on March 20, 1990, this listing is not expected to represent a significant environmental concern. Based on the documented former presence of a UST and its closed regulatory oversight, the former presence of the UST is identified as a historical recognized environmental condition (HREC).

4.2.3 Adjacent Property Listings

The adjacent property to the southeast is identified as a CERS HAZARDOUS WASTE and CONTRA COSTA COUNTY LISTINGS site in the regulatory database report, as discussed below:

- The property identified as identified as Mountain Mike Pizza at 1516 Fitzgerald Drive, located adjacent to the southeast and hydrologically cross gradient of the subject property is listed as a chemical storage facility in the CERS HAZARDOUS WASTE database with ID 442022. Records of administrative violations were found documented as returned to compliance in the ERIS Data Report. No other relevant information was found. Based on the available information, including the administrative nature of the listings, the distance of the subject property, and the absence of documented unauthorized release or outstanding violations, this listing is not expected to represent a significant environmental concern, and it is unlikely that a regulatory file review for this site would alter the findings of this assessment

The adjacent property to the north-northeast is identified as a CERS HAZARDOUS WASTE, CERS, RCRA NonGen/NLR, CUPA CONTRA COSTA COUNTY, and SWEEPS UST site in the regulatory database report, as discussed below:

- The property identified as identified as Good Year Tire at 1520 Fitzgerald Drive, located adjacent to the north-northeast and hydrologically downgradient of the subject property, is listed in the 1992 SWEEPS UST database as containing a 550-gallon UST for waste oil. Documents provided by the Contra Costa County Health Services Department (CCCHSD) describe the UST as a bare steel single wall tank. Available records, including a UST Removal form dated December 13, 1995, documented one single-walled 550-gallon waste oil UST (ID 07-000-070106-000001) was removed by SEMCO on December 8, 1995. The condition of the tank was described as 'very good', and that soil confirmation samples were collected and were to be analyzed for the presence of chemicals of concern by North State Environmental, including total petroleum as gasoline (TPH-g), as diesel (TPH-d), and as oil and grease (TPH-og). No other relevant information on the UST or soil confirmation samples was found in the documents available for review. No mention of UST related impacts was found in subsequent CCCHSD documents. CERS documents identify this site with ID 10008505. Records of administrative violations were found documented as returned to compliance in the ERIS Data Report. Based on the available information, including the removal of the UST and the inferred low residual concentration of chemicals of concern, the tendency of petroleum hydrocarbons to degrade naturally overtime, the time elapsed since the UST removal, the absence of documented outstanding violations or additional unauthorized releases, and the hydrologically upgradient location of the subject property, these listings are not expected to represent a significant environmental concern, and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.4 Sites of Concern Listings

The property to the north-northeast is identified as an ENVIROSTOR, and VCP, case site in the regulatory database report, as discussed below:

- The property identified as Appian 80 Express Cleaners at 1577 Tara Hills Drive, located approximately 1,395 feet north-northeast and hydraulically cross/down gradient of the subject property, is identified in the ENVIROSTOR database as an active Voluntary Cleanup Program (VCP) case (60001904) since July 16, 2013. According to the Site History Summary in the ENVIROSTOR database, a dry-cleaning business operated at 1577 Tara Hills Drive since 1981. Tetrachloroethylene (PCE) was used in the dry-cleaning operations until approximately 2002 when the facility began using a synthetic aliphatic hydrocarbon dry-cleaning solvent. Subsurface investigations documented the presence of volatile organic compounds (VOCs), including PCE, trichloroethylene (TCE), 1,2-dichloroethylene (1,2-DCE), and benzene in subsurface soil, soil gas, and groundwater. The highest concentration of PCE was documented in soil within the top 7-feet below ground surface. According to the Final Removal Action Workplan (RAW) prepared by West Environmental Services and Technology (WEST) in June 2018, subsurface investigations conducted

in 2015 documented the presence of PCE in groundwater at concentrations as high as 94,800 parts per billion (ppb). Predominant groundwater flow was documented fluctuation from the northwest to the southwest. In October 2015, approximately 55 pounds of Enhanced in-Situ Degradation (EISD) reagent was added to the groundwater to evaluate its effectiveness in degrading PCE. Groundwater sampling conducted in February 2016 revealed the EISD reagent had not been effective in promoting PCE degradation. A Sub-slab Depressurization/Soil Vapor Extraction (SSDS/SVE) system pilot study was implemented in May 2016. Chemical analyses of indoor air samples revealed that VOCs concentrations had declined to below applicable screening levels indicating the effectiveness of the SSDS/SVE system. Chemical analyses of groundwater samples collected from the southwestern monitoring well (MW-10) have not revealed the presence of PCE, TCE, or cis-1,2-DCE at concentrations above September 2017 California's Maximum Contaminant Levels (MCL). On January 2016, the presence of PCE in groundwater from MW-10 was documented at <0.5 ppb. In July 2016, WEST tested an alternative EISD groundwater amendment. Chemical analyses of groundwater samples collected during the September 2016 groundwater monitoring revealed that the alternative EISD amendment was effective in enhancing PCE dehalogenation, and the analyses of groundwater samples collected in October 2016 confirmed the reduction of PCE from 8,240 ppb to 13 ppb and corresponding decreases in cis-1,2-DCE from 4,320 ppb to 0.69 ppb. According to the Site History Summary in the ENVIROSTOR database, the Department of Toxic Substance Control (DTSC) approved a Removal Action Workplan for the site in September 2020. The final remedy consists of in-situ SSDS/SVE to remove VOCs from the soil and soil vapor, and EISD to remove VOCs from groundwater. The remedial action is intended to cleanup VOCs to levels that will be acceptable for unrestricted land use and is expected to take up to 12 months to complete. A land use covenant (LUC) was proposed as part of the remedy until VOC levels decrease to a level that is acceptable for unrestricted use. Based on the site's ending the use of PCE, the thorough subsurface investigations, the implementation of multiple remediation systems, the reduced concentration of PCE and its degradation subproducts in groundwater, together with the distance and hydraulic upgradient location of the subject property, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.5 Orphan Listings

No orphan listings of concern are identified in the regulatory database report.

A copy of the regulatory database report is included in Appendix C of this report.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional.* Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from Retail Opportunity Investments Corp. (ROIC) (User of this report).

User Responsibilities				
Item	**Provided By User**	**Not Provided By User**	**Discussed Below**	**Does Not Apply**
AAI User Questionnaire			**X**	
Title Records, Environmental Liens, and AULs			**X**	
Specialized Knowledge			**X**	
Actual Knowledge			**X**	
Valuation Reduction for Environmental Issues			**X**	
Identification of Key Site Manager	**Section 5.1.3**			
Reason for Performing Phase I ESA	**Section 1.1**			
Prior Environmental Reports		**X**		
Other		**X**		

5.1 Interviews

5.1.1 Interview with Owner

The owner of the subject property since 2011, identified as ROIC Pinole Vista LLC, was not available to be interviewed at the time of the assessment.

5.1.2 Interview with Report User

Please refer to Section 5.2 below for information requested from the Report User. The information requested was not received prior to the issuance of this report. Because the Report User (Client) is a lender, it is understood that the Report User would not have knowledge of the property that would significantly impact our ability to satisfy the objectives of this assessment. The lack of this information is not considered to represent a significant data gap.

5.1.3 Interview with Key Site Manager

A key site manager was not provided to be interviewed at the time of this assessment.

5.1.4 Interviews with Past Owners, Operators and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.1.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and AULs

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

5.2.2 Specialized Knowledge

No specialized knowledge of environmental conditions associated with the subject property was provided by the User at the time of the assessment.

5.2.3 Actual Knowledge of the User

No actual knowledge of any environmental lien or AULs encumbering the subject property or in connection with the subject property was provided by the User at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

No knowledge of valuation reductions associated with the subject property was provided by the User at the time of the assessment.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment.

5.2.6 Previous Reports and Other Provided Documentation

No previous reports or other pertinent documentation was provided to Partner for review during this assessment.

6.0 SITE RECONNAISSANCE

The weather at the time of the field reconnaissance was sunny and clear. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data	
Site Assessment Performed By:	Alvaro Dominguez
Site Assessment Conducted On:	January 21, 2022

The building at the subject property is currently vacant. Due to apparent structural hazards, the City of Pinole has implemented access restrictions to the building interior. No potential environmental concerns were identified during the onsite field reconnaissance.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

No solid waste is currently generated at the subject property. No evidence of illegal dumping of solid waste was observed during the Partner site reconnaissance.

6.1.2 Sewage Discharge and Disposal

Sanitary discharges on the subject property are directed into the municipal sanitary sewer system. The West County Wastewater District services the subject property vicinity. No wastewater treatment facilities or septic systems were observed or reported on the subject property.

6.1.3 Surface Water Drainage

Sanitary discharges on the subject property are directed into the municipal sanitary sewer system. The West County Wastewater District services the subject property vicinity. No wastewater treatment facilities or septic systems were observed or reported on the subject property.

The subject property does not appear to be a designated wetland area, based on information obtained from the United States Fish & Wildlife Service; however, a comprehensive wetlands survey would be required to formally determine actual wetlands on the subject property. No surface impoundments, wetlands, natural catch basins, settling ponds, or lagoons are located on the subject property. No drywells were identified on the subject property.

6.1.4 Source of Heating and Cooling

Pacific Gas and Electric Co provides electricity and natural gas to the subject property and surrounding area. The building in the subject property is currently vacant, with no active HVAC or hot water systems.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

6.1.6 Wastewater

Domestic wastewater generated at the subject property is disposed by means of the sanitary sewer system. No industrial process is currently performed at the subject property.

6.1.7 Septic Systems

No septic systems were observed or reported on the subject property.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

No hazardous substances or petroleum products were observed on the subject property during the field reconnaissance.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

6.2.3 Evidence of Releases

No spills, stains, or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)

No potential PCB-containing equipment (transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, etc.) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent or Noxious Odors

No strong, pungent, or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps and Clarifiers

No drains, sumps, or clarifiers, other than those associated with storm water removal, were observed on the subject property during the site reconnaissance.

6.2.8 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

6.3 Non-ASTM Services

6.3.1 Asbestos-Containing Materials (ACMs)

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 requires certain construction materials to be presumed to contain asbestos, for purposes of this regulation. All thermal system insulation (TSI), surfacing material, and asphalt/vinyl flooring that are present in a building that have not been appropriately tested are "presumed asbestos-containing material" (PACM).

The subject property building was constructed in 1981. Due to City of Pinole imposed access restrictions, Partner was unable to assess the building's interior. Partner understands the existing structure is planned to be demolished and the subject property redeveloped with a residential complex. Based on the building's date of construction, prior to disturbance, Partner recommends a comprehensive asbestos survey of the property be completed to determine the presence, condition, friability, and likely future condition of suspect or confirmed ACM. All suspect materials must be handled as ACM according to local, state, and federal regulations until the results of sampling and analysis indicate the material is a non-ACM.

6.3.2 Lead-Based Paint (LBP)

Lead is a highly toxic metal that affects virtually every system of the body. LBP is defined as any paint, varnish, stain, or other applied coating that has 1 mg/cm^2 (or 5,000 ug/g or 0.5% by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as "Title X", to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the Housing and Urban Development (HUD) and the US EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

It is unlikely that LBP is present in buildings constructed after 1977. Therefore, due to the age of the subject property building, it is unlikely that LBP is present.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

EPA Radon Zones

EPA Zones	Average Predicted Radon Levels	Potential
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 2. Based upon the radon zone classification, radon is not considered to be a significant environmental concern.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the East Bay Municipal Utility District (EBMUD) serves the subject property vicinity. According to the EBMUD 2020 Annual Water Quality Report, shallow groundwater beneath the subject property is not utilized for domestic purposes. EBMUD's sources of public water for the City of Pinole are delivered from the Mokelumne watershed. According to the EBMUD 2020 Annual Water Quality Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper. Water sampling was not conducted to verify water quality.

6.3.5 Mold

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g.in the form of very high humidity, condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

Partner was not provided access to, or photos of, interior areas of the subject property. As such, a visual survey for evidence of mold growth or water intrusion was not conducted

6.4 Adjacent Property Reconnaissance

6.4.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

The auto repair – tire center facility located within the Pinole Plaza shopping center, located adjacent to the north and hydrologically downgradient of the subject property, handles and stores petroleum hydrocarbons, including fresh and waste motor oil and fresh and waste antifreeze. As discussed in Section 4.2, one single-walled 550-gallon waste oil UST on December 8, 1995. Available CCCHSD documents on the site do not mention UST related impacts. Based on the available information, including the removal of the UST, the tendency of petroleum hydrocarbons to degrade naturally overtime, the time elapsed since the UST was removed, the absence of additional documented unauthorized releases, and hydrologically upgradient location of the subject property, the handling and storage of petroleum hydrocarbons in this site does not appear to pose an environmental concern at this time.

6.4.2 ASTs/USTs for Hazardous Substances or Petroleum Products

During the field reconnaissance of the subject property, one diesel fueled electrical generator with a 200-gallon belly tank was observed adjacent to the north and hydrologically downgradient of the subject property. The generator is labeled as belonging to the West County Wastewater District (WCWD) and serves to operate the WCWD Pinole Center Lift Station. No signs of leaks or spill were noted in the

immediate area surrounding the electrical generator. Based on the available information, including the absence of documented releases or signs of leaks or spills, and hydrological upgradient location of the subject property, the presence of the emergency generator and associated belly does not appear to pose an environmental concern at this time.

7.0 FINDINGS AND CONCLUSIONS

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during this assessment:

- Partner did not identify any recognized environmental conditions during this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during this assessment:

- Partner did not identify any controlled recognized environmental conditions during this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during this assessment:

- The subject property, identified as K-Mart Enterprises at 1500 Fitzgerald Drive, is listed in the SWEEPS UST database as containing one inactive 1,000-gallon UST (ID 07-000-014432-000001) for waste oil, listed as removed on June 26, 1990. No relevant information on the Historical UST listing was found in the ERIS Data report. State Water Resources Control Board (SWRCB) historical UST records indicate a 500-gallon carbon steel single-wall UST was installed in 1981. A Contra Costa County Application Permit to Operate a UST documents the presence of a 1,000-gallon steel UST for waste oil installed in 1981. A tank deposition record prepared by JC Bateman Petroleum Services on August 20, 1989, documented the removal of a 1,000-gallon steel UST for waste oil from the subject property. Chemical analyses of soil confirmation samples documented the presence of Total Petroleum Hydrocarbons as oil and grease (TPH-og) at concentrations as high as 78 parts per million (ppm), and the presence of TPH as diesel (TPH-d) and as gasoline (TPH-g), at concentrations below 10 ppm. A Contra Costa County Health Services Department (CCCSHSD) letter dated March 20, 1990, confirms the subsurface characterization was adequate and indicates no further investigation was required regarding the removed UST. The available information, including the lack of CCCHSD documents verifying the presence of a 500-gallon UST at the subject property, suggests that only one UST was installed in this site. Based on the available information, including the documented removal of the UST and low residual concentration of chemicals of concern, the tendency of petroleum hydrocarbons in the subsurface to degrade naturally over time, the time elapsed since the unauthorized release was documented, and the no further action letter issued by the CCCHSD on March 20, 1990, this listing is not expected to represent a significant environmental concern. Based on the documented former

presence of a UST and its closed regulatory oversight, the former presence of the UST is identified as a historical recognized environmental condition (HREC).

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during this assessment:

- The subject property was formerly equipped with one 1,000-gallon UST, removed in 1989. Though unlikely, it is possible that elevated concentrations of chemicals of concern may be encountered during planned redevelopment activities.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 1500 Fitzgerald Drive in Pinole, Contra Costa County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property; however, a historical recognized environmental condition and environmental issues were identified. Based on the conclusions of this assessment, Partner recommends the following:

- In the event that excavation or redevelopment activities are planned at the subject property, if impacted soils are encountered from the former UST they should be managed in accordance with applicable regulations.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located at 1500 Fitzgerald Drive in Pinole, Contra Costa County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:

Alvaro Dominguez
Environmental Professional

Reviewed By:

Sarah Vosovic
Senior Author

9.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E1527-13.

Environmental Risk Information System (ERIS), Data Report, January 2022

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, January 2022

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, January 2022

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, accessed via the internet, January 2022

United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, January 2022

United States Geological Survey, accessed via the Internet, January 2022

FIGURES

1 SITE LOCATION MAP

2 SITE PLAN

3 TOPOGRAPHIC MAP

PARTNER

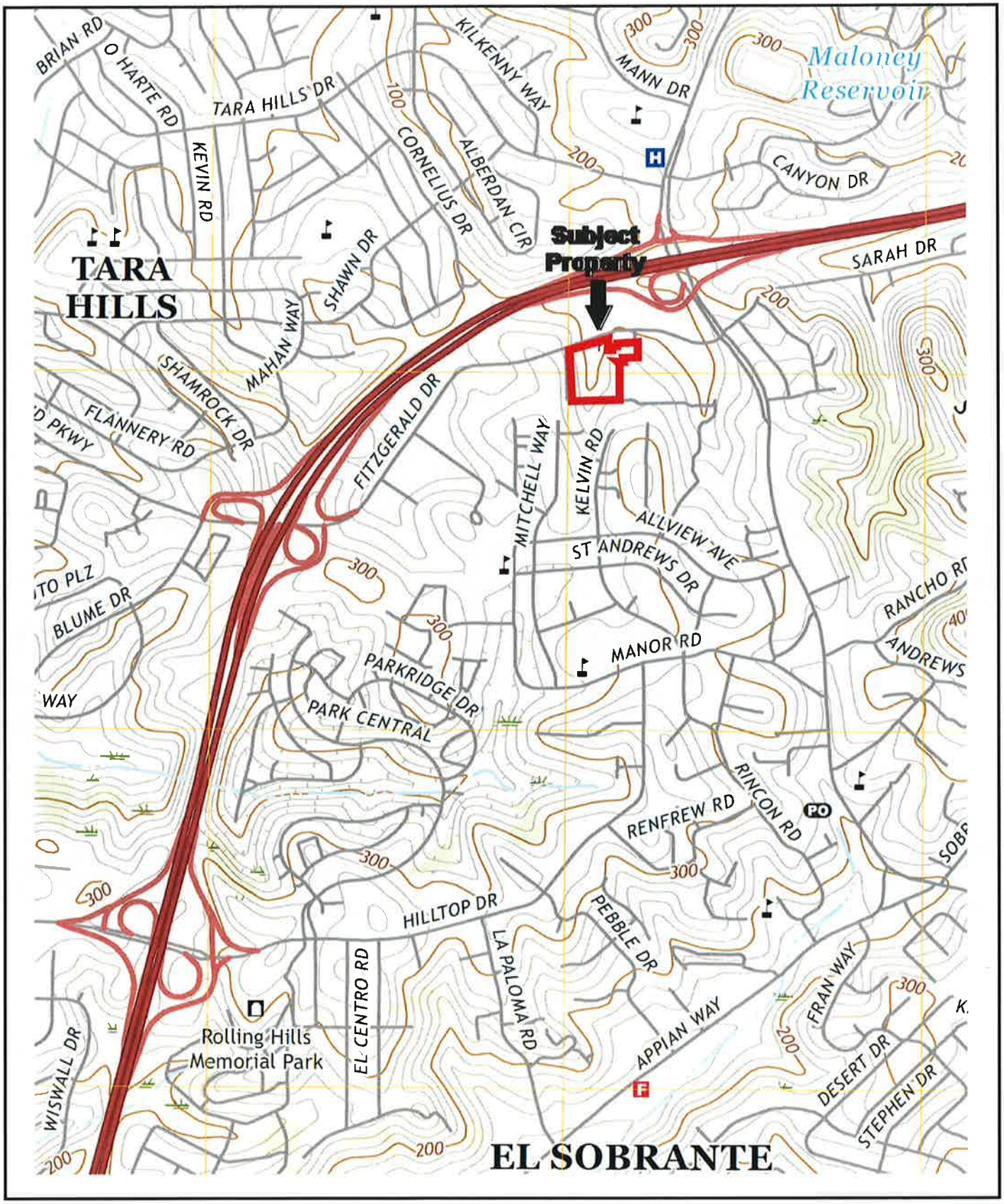
N

GROUNDWATER FLOW

KEY:
Subject Property

FIGURE 2: SITE PLAN
Project No. 22-353963.1

PARTNER



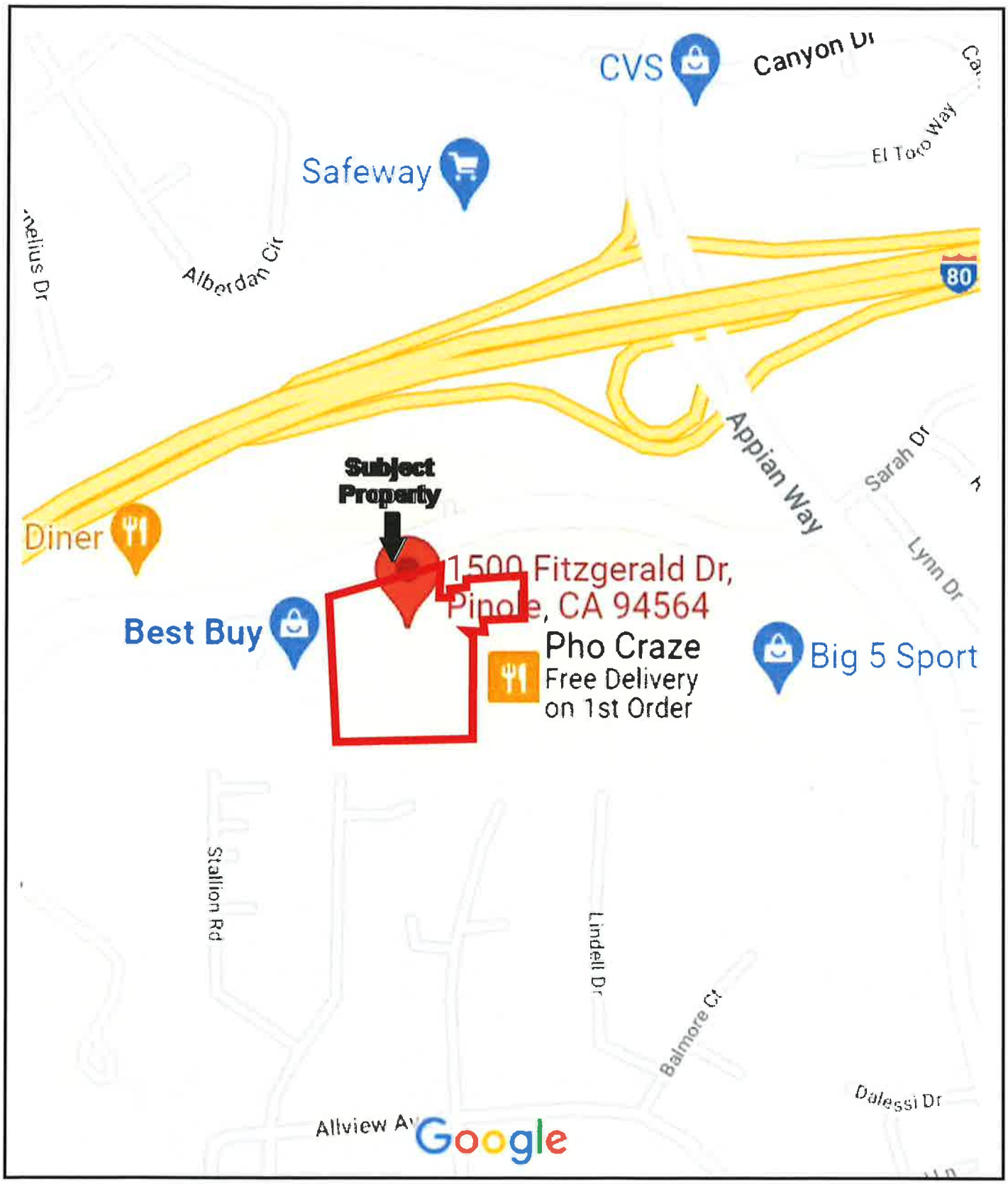
N

USGS 7.5 Minute *Richmond, California* Quadrangle
Created: 2018

KEY:
Subject Property

FIGURE 3: TOPOGRAPHIC MAP
Project No. 22-353963.1

PARTNER



N

Drawing Not To Scale

KEY:
Subject Property

FIGURE 1: SITE LOCATION MAP
Project No. 22-353963.1

PARTNER

APPENDIX A: SITE PHOTOGRAPHS

1. View of the commercial sign of the Pinole Vista shopping center, where the subject property is located.

2. East view of the parking lot and currently vacant building in the subject property.

3. View of the subject property building entrance.

4. View of a City of Pinole ordinance restricting access to the building interior.

5. View of the internal condition and water damage observed through a glass door on the northeast portion of the building in the subject property.

6. View of the internal condition and observed through a glass door on the central portion of the building in the subject property.

7. South view of the building on the subject property.

8. View of the undeveloped strip of land followed by the residential development observed adjacent to the south.

9. South view of the drive adjacent to the west of the subject property.

10. View of one electrical transformer observed on the west side of

11. West view of the building in the subject property.

12. View of the northwest side of the building in the subject property.

13. View of the hospitality facility observed across Fitzgerald Drive, north of the subject property.

14. View of the West County Wastewater emergency generator, equipped with a 200-gallon AST, observed adjacent to north-northeast.

15. View of the plate identifying the emergency generator and associated belly lank observed adjacent to the north northeast.

16. View of the auto repair/tire center observed adjacent to the north northeast of the subject property.

17. View of the commercial land use observed adjacent to the west of the subject property.

18. View of the commercial land use within the Pinole Vista shopping center, observed adjacent to the northeast of the subject property.

APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION

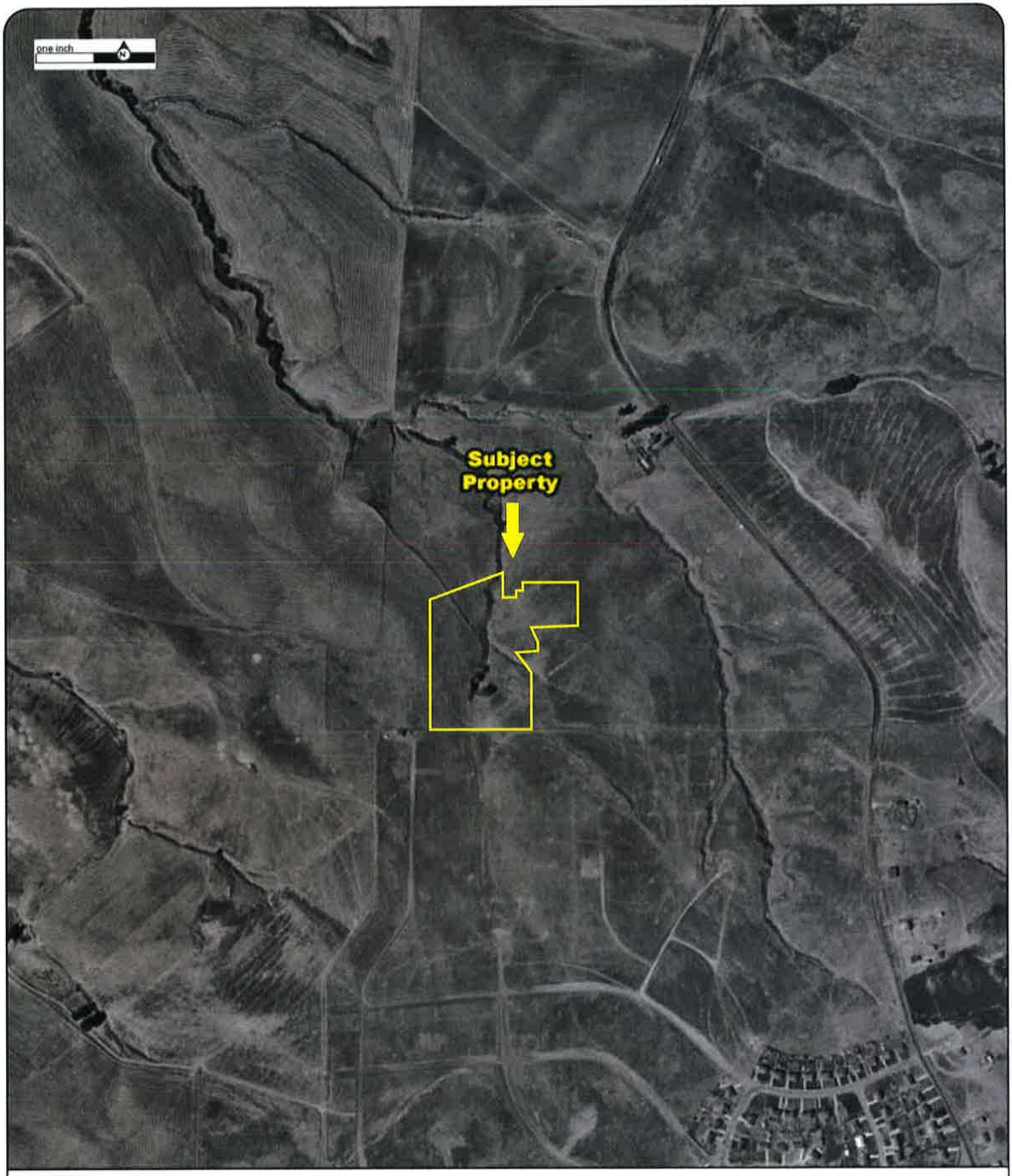
PARTNER

Year: 1939
Source: FAIRCHILD
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER



Year: 1946
Source: USGS
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
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Order No: 22011800758

PARTNER

Year: 1948
Source: USGS
Scale: 1" = 500'
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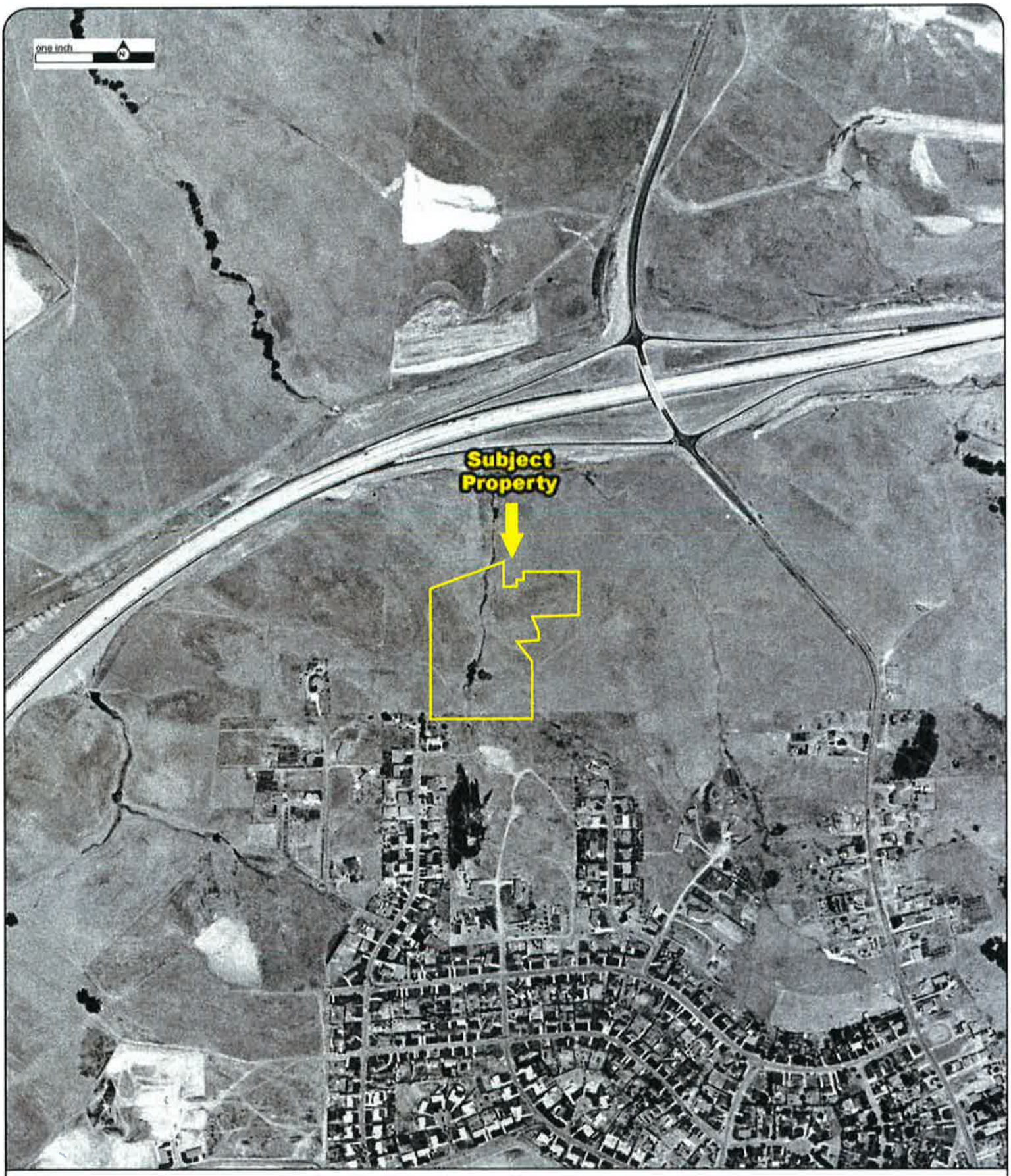
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER



Year: 1958
Source: USGS
Scale: 1" = 500'
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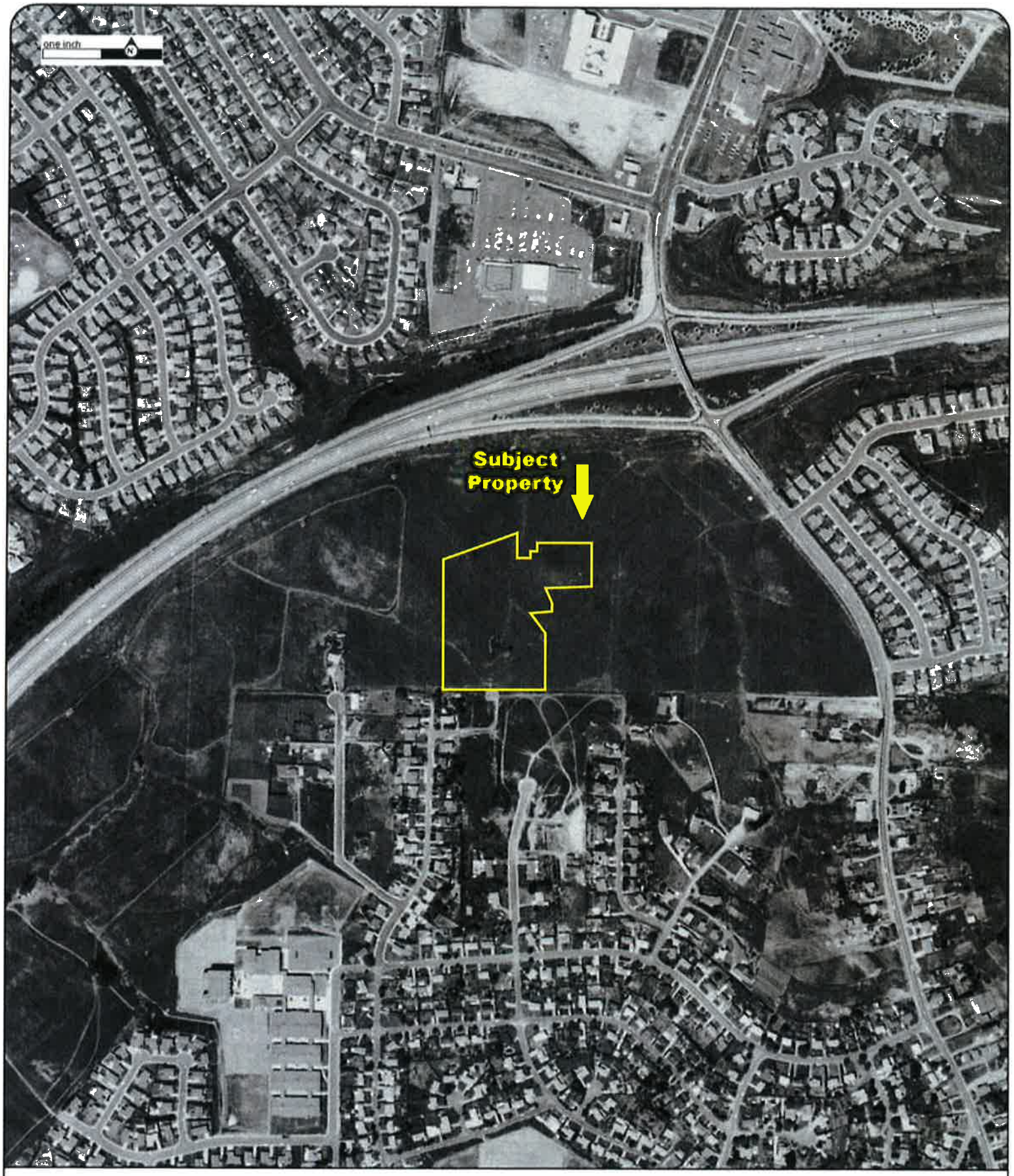
Order No: 22011800758

PARTNER



Year: 1968
Source: USGS
Scale: 1" = 500'
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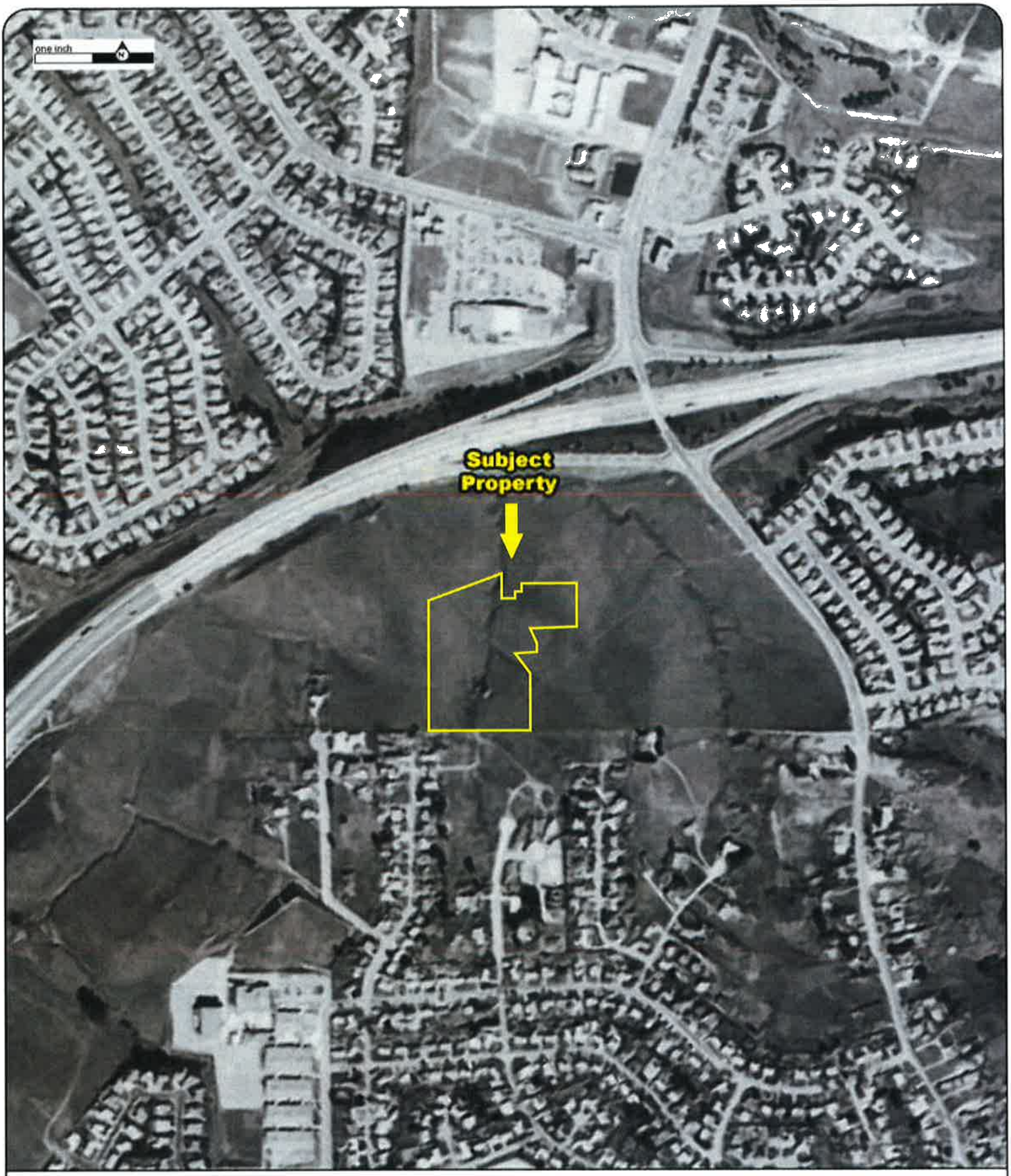
Order No: 22011800758

PARTNER



Year: 1974
Source: NASA
Scale: 1" = 500'
Comment:

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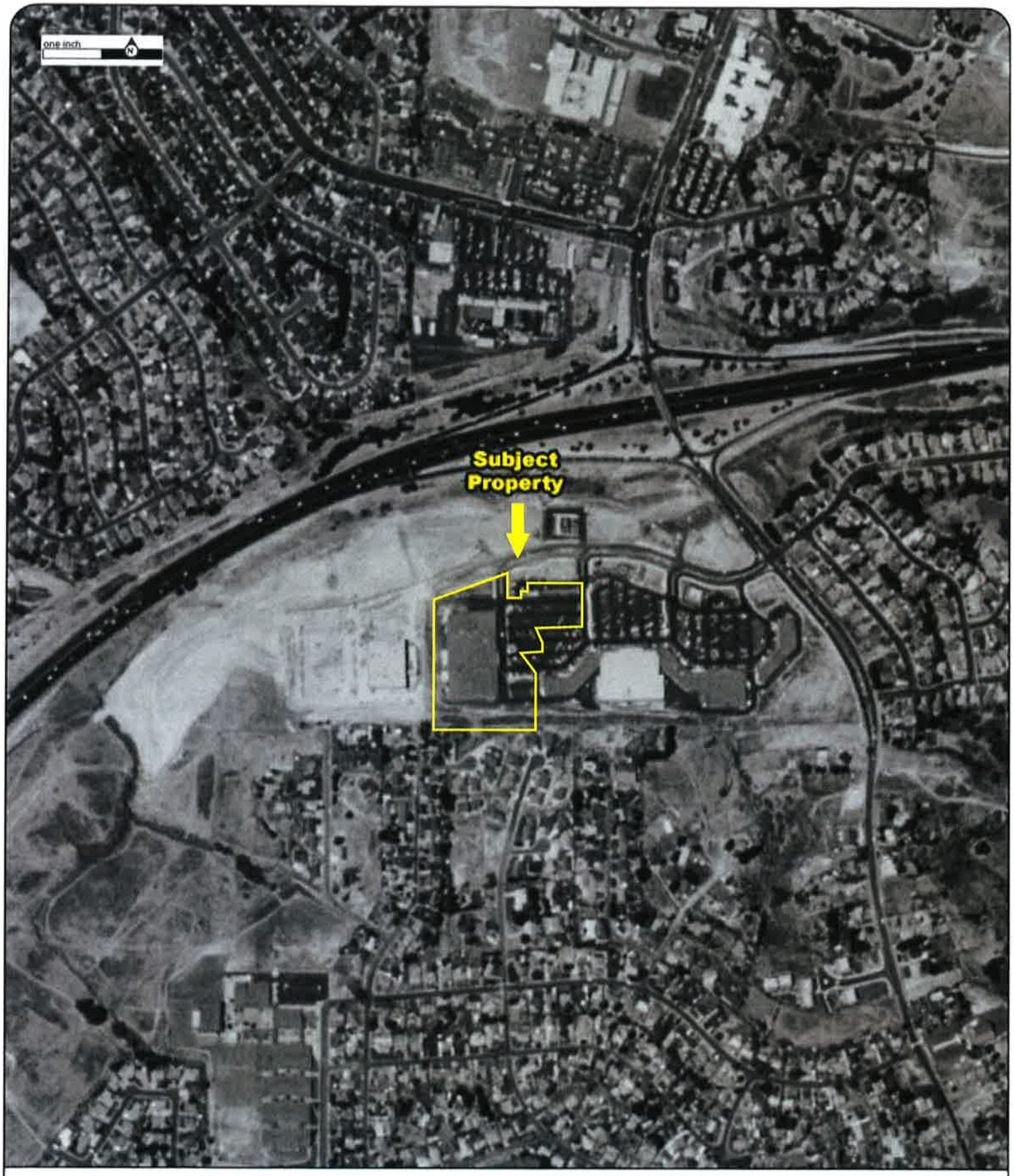
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER



Year: 1982
Source: USGS
Scale: 1" = 500'
Comment: Best Copy Available

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER

Year: 1993
Source: USGS
Scale: 1" = 500'
Comment:

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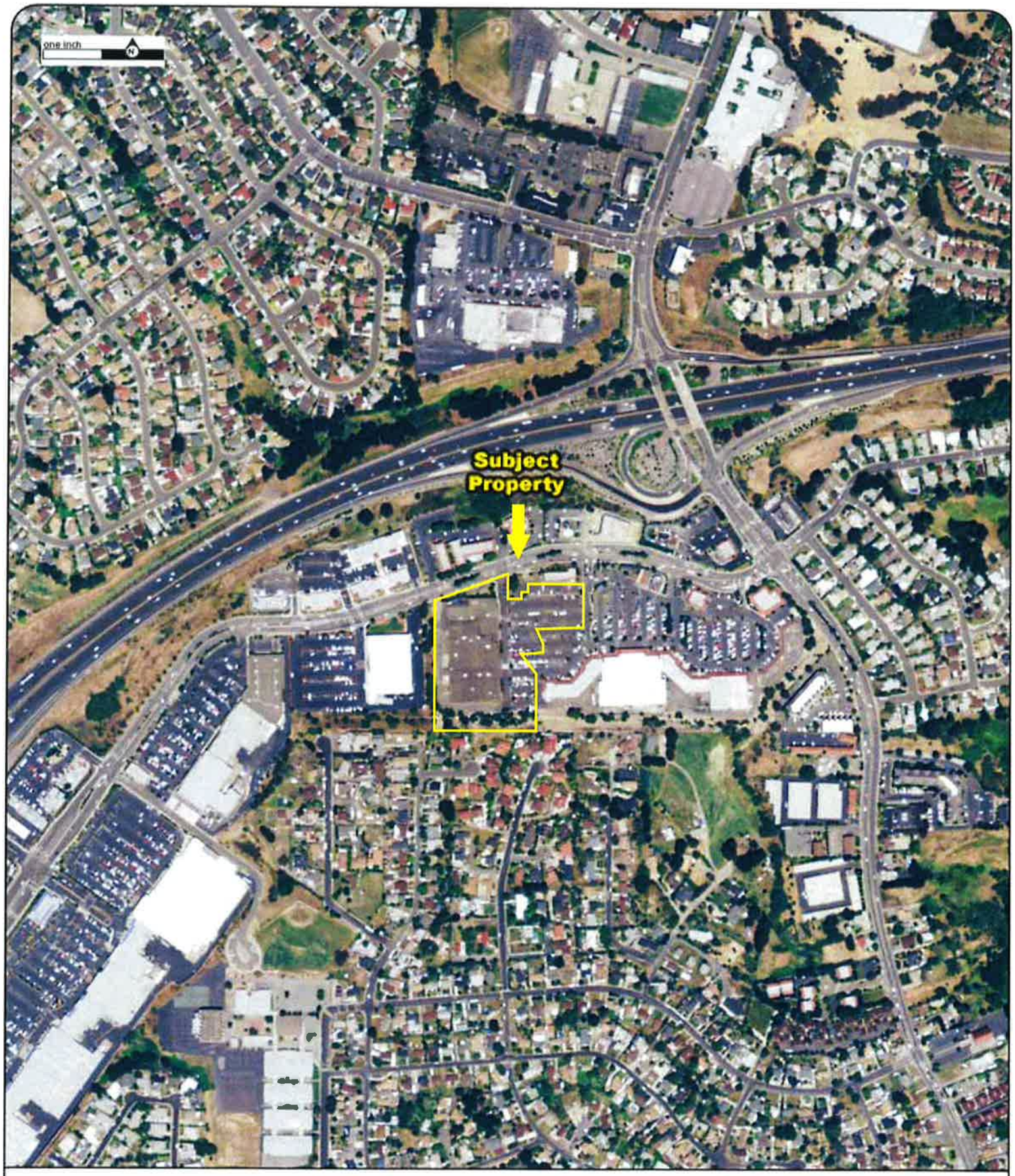
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER



Year: 2005
Source: USDA
Scale: 1" = 500'
Comment:

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Order No: 22011800758

PARTNER

Year: 2010
Source: USDA
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

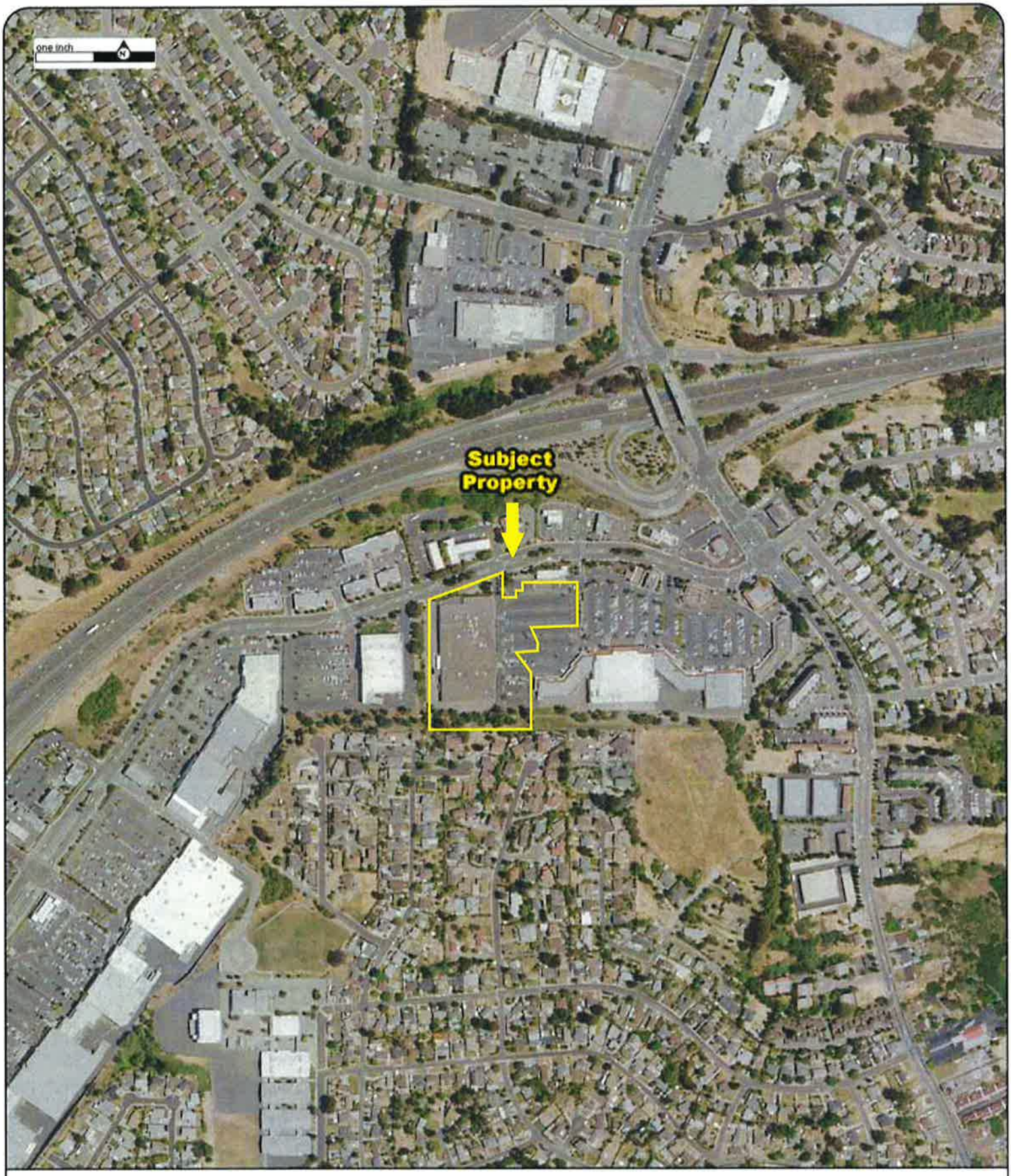
PARTNER

Year: 2012
Source: USDA
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER



Year: 2014
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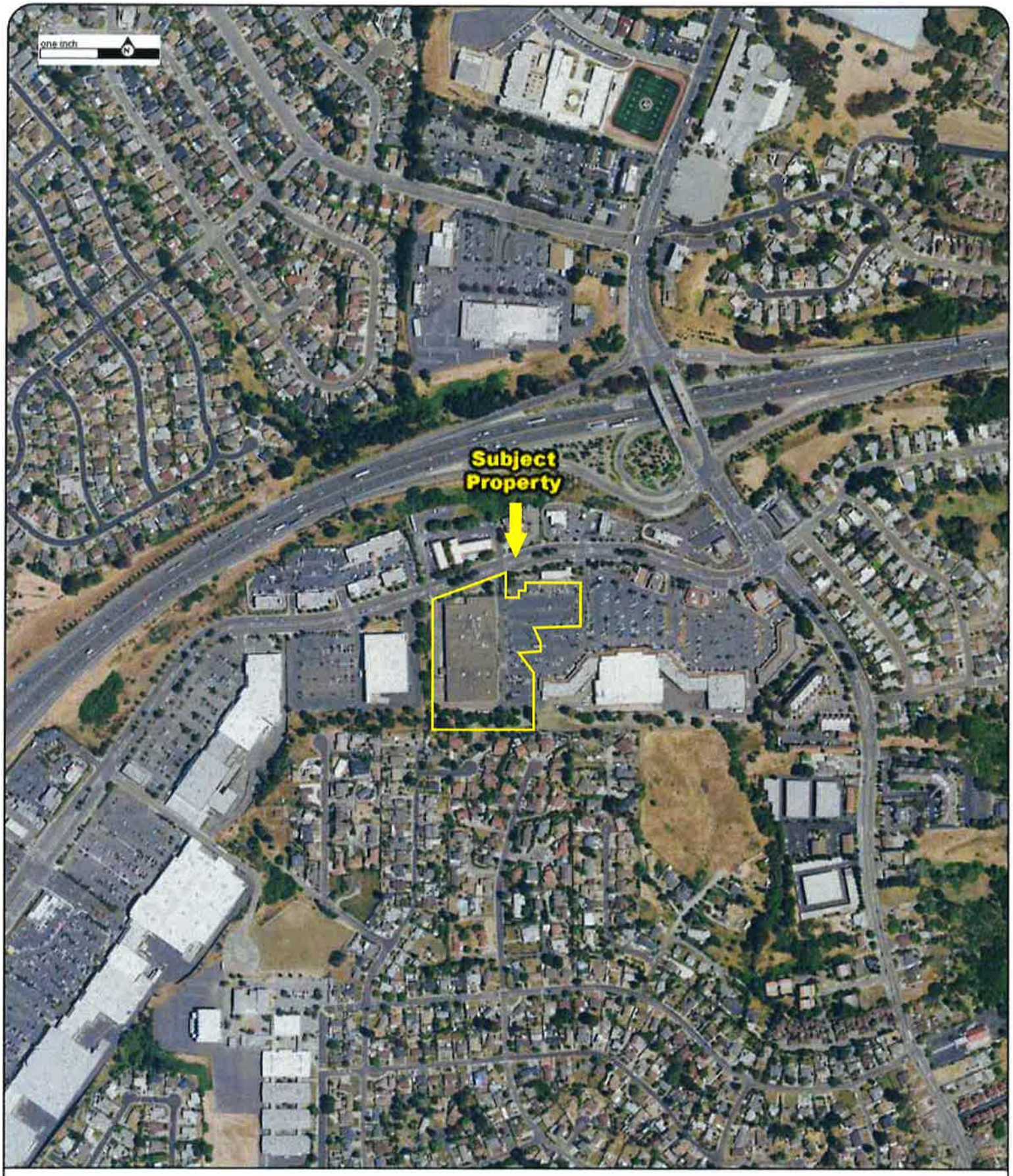
Order No: 22011800758

PARTNER



Year: 2016
Source: USDA
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

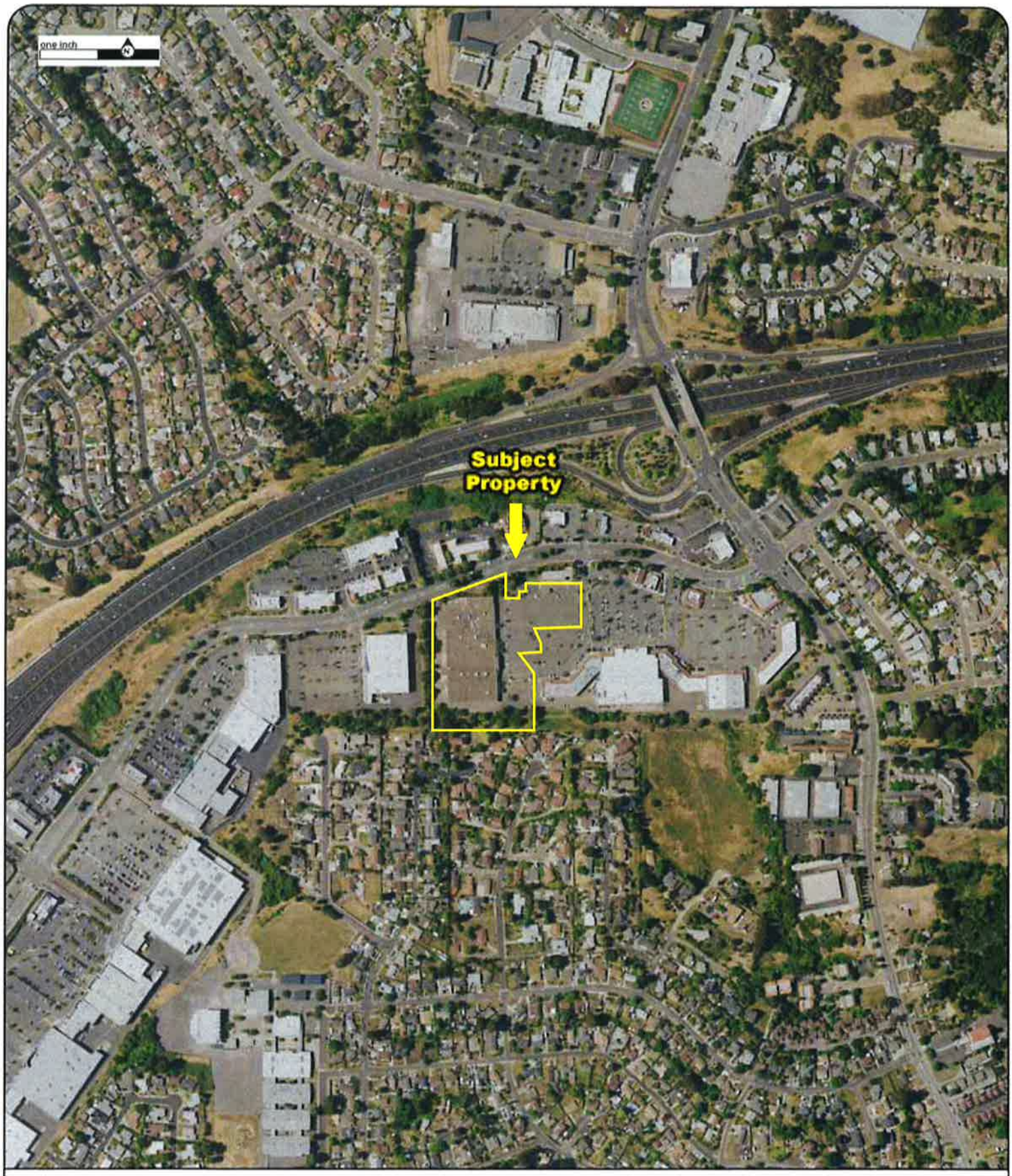
PARTNER

Year: 2018
Source: USDA
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER



Year: 2020
Source: USDA
Scale: 1" = 500'
Comment:

Address: 1500 Fitzgerald Drive, PINOLE, CA
Approx Center: -122.30450723,37.99047309

Order No: 22011800758

PARTNER

FIRE INSURANCE MAPS

Project Property:	Pinole Mixed-Use 1500 Fitzgerald Drive PINOLE CA 94564
Project No:	22-353963.1
Requested By:	Partner Engineering and Science, Inc.
Order No:	22011800758
Date Completed:	January 19, 2022

Please note that no information was found for your site or adjacent properties.

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

ERIS

CITY DIRECTORY

Project Property:	*Pinole Mixed-Use* *1500 Fitzgerald Drive* *PINOLE, CA 94564*
Project No:	*22-353963.1*
Requested By:	*Partner Engineering and Science, Inc.*
Order No:	*22011800758*
Date Completed:	*January 25, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

January 25, 2022
RE: CITY DIRECTORY RESEARCH
Pinole Mixed-Use
1500 Fitzgerald Drive PINOLE, CA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
1450-1550 of Fitzgerald Dr
1100-1135 of Mitchell Way

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2006	HAINES	
2001	HAINES	
1996	HAINES	
1991	HAINES	
1987	HAINES	
1985	HAINES	
1980	HAINES	
1975	HAINES	
1960	PACIFIC TELEPHONE	
1956	PACIFIC TELEPHONE	

76 total records. *Part 1 of 2*

1450 **MICHAELS**...*Craft Supplies*
1450 **MICHAELS**...*Leather Goodsmanufacturers*
1460 **GROCERY OUTLET**...*Shopping Service-personal*
1460 **GROCERY OUTLET**...*Convenience Stores*
1460 **GROCERY OUTLET**...*Sightseeing Tours*
1460 **GROCERY OUTLET**...*Grocers-retail*
1470 **CHUCK E CHEESE`S**...*Pizza*
1471 **PRIME COMMUNICATIONS AT-T AUTH**...*Cellular Telephones (services)*
1471 **SLEEP NUMBER**...*Mattresses*
1471 **SLEEP NUMBER BY SELECT COMFORT**...*Mattresses*
1471 **VITAMIN SHOPPE**...*Vitamin & Food Supplements*
1473 **COLD STONE CREAMERY**...*Restaurants*
1473 **COLD STONE CREAMERY**...*Ice Cream Parlors*
1473 **COLD STONE CREAMERY**...*Ice Cream Parlors*
1473 **COLD STONE CREAMERY**...*Foodscarry Out*
1473 **COLD STONE CREAMERY**...*Yogurt*
1473 **DICKEY`S BARBECUE PIT**...*Restaurants*
1473 **FEDEX OFFICE PRINT & SHIP CTR**...*Shipping Agents*
1473 **FEDEX OFFICE PRINT & SHIP CTR**...*Business Service Centers*
1473 **PANDA EXPRESS**...*Cafes*
1473 **PANDA EXPRESS**...*Foods-carry Out*
1473 **PANDA EXPRESS**...*Restaurants*
1473 **SUBWAY**...*Delicatessens*
1473 **ZIO`S PASTA PRONTO**...*Restaurants*
1475 **AUTOZONE**...*Batteriesstoragewholesale*
1475 **AUTOZONE**...*Automobile Parts & Supplies-retail-new*
1475 **AUTOZONE**...*Automobile Repairing & Service*
1475 **AUTOZONE**...*Batteries-storage-retail*
1477 **ALLIED PACIFIC REALTY**...*Real Estate*
1477 **ANYTIME FITNESS**...*Health Clubs Studios & Gymnasiums*
1477 **HAILIE`S HAIRCUTS**...*Beauty Salons*
1477 **RENUI SKIN CARE**...*Skin Treatments*
1477 **SPRINT**...*Cellular Telephones (services)*
1477 **SPRINT**...*Cellular Telephones-service & Repair*
1477 **WENDELL FORREST R DDS**...*Dentists*
1490 **A D T-CUSTOMER SVC**...*Security Systems*
1490 **BEST BUY**...*Electronic Equipment & Supplies-retail*
1500 **KEYME**...*Keys*
1500 **KMART**...*Social Service & Welfare Organizations*
1500 **KMART**...*Department Stores*
1500 **KMART**...*Ecommerce*
1500 **KMART**...*Retail Shops*
1501 **MOTEL 6**...*Hotels & Motels*
1501 **MOTEL 6**...*Hotels & Motels*
1501 **MOTEL 6**...*Ecommerce*
1502 **PAPA MURPHY`S TAKE `N` BAKE**...*Pizza*
1502 **SUBWAY**...*Restaurants*
1506 **DUMLAO`S MARTIAL ARTS**...*Martial Arts Instruction*
1508 **LA VIE HAIR NAIL SALON**...*Beauty Salons*
1508 **LA VIE HAIR & NAIL SALON**...*Beauty Salons*
1510 **NEW EBONY BEAUTY SUPPLY**...*Beauty Salons-equipment & Supplies-mfrs*
1510 **NEW EBONY BEAUTY SUPPLY**...*Cosmetics & Perfumes-retail*
1514 **YOGURT TOWN**...*Yogurt*

2020 FITZGERALD DR
SOURCE: DIGITAL BUSINESS DIRECTORY

Part 2 of 2

1515 **SIZZLER**...*Restaurants*
1515 **SIZZLER**...*Cafes*
1515 **SIZZLER**...*Foods-carry Out*
1516 **MOUNTAIN MIKE'S PIZZA**...*Pizza*
1516 **MOUNTAIN MIKE'S PIZZA**...*Restaurants*
1520 **JARVIS JARVIS INC**...*Automobile Repairing & Service*
1520 **PINOLE GOODYEAR**...*Tiredealersused (whls)*
1520 **PINOLE GOODYEAR**...*Tire-dealers-retail*
1530 **ATM**...*Automated Teller Machines*
1530 **LUCKY SUPERMARKETS**...*Convenience Stores*
1530 **LUCKY SUPERMARKETS**...*Grocers-retail*
1530 **SAV-ON PHARMACY**...*Pharmacies*
1540 **STARBUCKS**...*Espresso & Espresso Bars*
1540 **STARBUCKS**...*Coffee & Tea*
1540 **STARBUCKS**...*Coffee Shops*
1540 **STARBUCKS**...*Coffee & Tea Productsmanufacturers*
1541 **CHASE BANK**...*Banks*
1544 **KFC**...*Foods-carry Out*
1544 **KFC**...*Cafes*
1544 **KFC**...*Restaurants*
1550 **CARL'S JR**...*Foods-carry Out*
1550 **CARL'S JR**...*Cafes*
1550 **CARL'S JR**...*Restaurants*

2020 MITCHELL WAY
SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND FOR THIS YEAR...

2016 FITZGERALD DR
SOURCE: DIGITAL BUSINESS DIRECTORY

1450 **MICHAELS**...*Craft Supplies*
1460 **GROCERY OUTLET**...*Shopping Service-personal*
1460 **GROCERY OUTLET**...*Grocers-retail*
1470 **CHUCK E CHEESE'S**...*Foods-carry Out*
1470 **CHUCK E CHEESE'S**...*Pizza*
1471 **SLEEP NUMBER BY SELECT COMFORT**...*Mattresses*
1471 **VITAMIN SHOPPE**...*Vitamin & Food Supplements*
1473 **AT & T-AUTHORIZED RETAILER**...*Satellite Equipment & Systems-retail*
1473 **COLD STONE CREAMERY**...*Ice Cream Parlors*
1473 **COLD STONE CREAMERY**...*Restaurants*
1473 **FEDEX OFFICE PRINT & SHIP CTR**...*Business Service Centers*
1473 **FEDEX OFFICE PRINT & SHIP CTR**...*Shipping Agents*
1473 **PANDA EXPRESS**...*Foods-carry Out*
1473 **PANDA EXPRESS**...*Restaurants*
1473 **SUBWAY**...*Delicatessens*
1475 **AUTOZONE**...*Batteries-storage-retail*
1475 **AUTOZONE**...*Automobile Parts & Supplies-retail-new*
1477 **A D T-ACTIVATION & HM SECURITY**...*Burglar Alarm Systems (whls)*
1477 **HAILIE'S HAIRCUTS**...*Beauty Salons*
1477 **RENUI SKIN CARE**...*Skin Treatments*
1477 **SPRINT**...*Cellular Telephones-service & Repair*
1477 **SPRINT**...*Cellular Telephones (services)*
1477 **WENDELL, FORREST R DDS**...*Dentists*
1490 **A D T-CUSTOMER SVC**...*Security Systems*
1490 **BEST BUY**...*Television & Radio-dealers*
1490 **BEST BUY**...*Electronic Stores*
1490 **BEST BUY**...*Electronic Equipment & Supplies-retail*
1500 **KEYME**...*Keys*
1500 **KMART**...*Department Stores*
1500 **KMART**...*Department Stores*
1500 **KMART**...*Retail Shops*
1500 **PINOLE VISTA**...*Shopping Centers & Malls*
1501 **MOTEL 6**...*Hotels & Motels*
1502 **PAPA MURPHY'S TAKE 'N' BAKE**...*Pizza*
1502 **PAPA MURPHY'S TAKE 'N' BAKE**...*Restaurants*
1502 **SUBWAY**...*Restaurants*
1506 **DUMLAO'S MARTIAL ARTS**...*Martial Arts Instruction*
1508 **LA VIE HAIR & NAIL SALON**...*Beauty Salons*
1510 **NEW EBONY BEAUTY SUPPLY**...*Cosmetics & Perfumes-retail*
1510 **NEW EBONY BEAUTY SUPPLY**...*Beauty Salons-equipment & Supplies-mfrs*
1514 **ICE CREAM MANIA**...*Ice Cream Parlors*
1514 **ICE CREAM MANIA**...*Ice Cream Parlors*
1514 **YOGURT TOWN**...*Yogurt*
1515 **SIZZLER**...*Restaurants*
1515 **SIZZLER**...*Foods-carry Out*
1516 **MOUNTAIN MIKE'S PIZZA**...*Restaurants*
1516 **PLUS ADVANTAGE INVESTMENTS**...*Investments*
1520 **PINOLE GOODYEAR**...*Tire-dealers-retail*
1520 **PINOLE VISTA SHOPPING CTR**...*Shopping Centers & Malls*
1530 **BANK OF AMERICA ATM**...*Automated Teller Machines*
1530 **COINSTAR**...*Coin & Bill Counting/sorting Svc Kiosks*
1530 **LUCKY SUPERMARKETS**...*Grocers-retail*
1530 **SAV-ON PHARMACY**...*Pharmacies*
1540 **STARBUCKS**...*Coffee & Tea*
1540 **STARBUCKS**...*Coffee Shops*
1541 **CHASE BANK**...*Automated Teller Machines*
1541 **CHASE BANK**...*Banks*
1544 **KFC**...*Restaurants*
1544 **KFC**...*Foods-carry Out*
1550 **CARL'S JR**...*Restaurants*
1550 **CARL'S JR**...*Foods-carry Out*

2016 MITCHELL WAY
SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND FOR THIS YEAR...

2012 FITZGERALD DR
SOURCE: DIGITAL BUSINESS DIRECTORY

1450 **ABC TREE FARMS**...*Christmas Trees*
1450 **MICHAELS**...*Craft Supplies*
1460 **GROCERY OUTLET**...*Grocers-retail*
1470 **CHUCK E CHEESE'S**...*Pizza*
1471 **VITAMIN SHOPPE**...*Vitamins*
1473 **COLD STONE CREAMERY**...*Ice Cream Parlors*
1473 **FEDEX OFFICE PRINT & SHIP CTR**...*Business Service Centers*
1473 **PANDA EXPRESS**...*Restaurants*
1473 **SUBWAY**...*Restaurants*
1475 **AUTOZONE**...*Automobile Parts & Supplies-retail-new*
1477 **BAE, RICHARD D DDS**...*Dentists*
1477 **CUENCA, ERICK N DDS**...*Dentists*
1477 **HAILIE'S HAIRCUTS**...*Beauty Salons*
1477 **JAWALE, RESHMA R DDS**...*Dentists*
1477 **PINOLE DENTAL**...*Dentists*
1477 **SPRINT**...*Cellular Telephones (services)*
1490 **BEST BUY**...*Electronic Equipment & Supplies-retail*
1500 **KMART**...*Department Stores*
1500 **OLAN MILLS**...*Photographers-portrait*
1501 **MOTEL 6**...*Hotels & Motels*
1502 **BOOK SMARTS**...*Book Dealers-retail*
1502 **PAPA MURPHY'S TAKE 'N' BAKE**...*Pizza*
1506 **DUMLAOS MARTIAL ARTS**...*Martial Arts Instruction*
1508 **XCEL CUTS & PERMS SALON**...*Beauty Salons*
1510 **NEW EBONY BEAUTY SUPPLY**...*Cosmetics & Perfumes-retail*
1514 **ICE CREAM MANIA**...*Ice Cream Parlors*
1515 **SIZZLER**...*Restaurants*
1518 **MECHANICS BANK**...*Banks*
1520 **JARVIS & JARVIS INC**...*Tire-dealers-retail*
1520 **PINOLE VISTA SHOPPING CTR**...*Shopping Centers & Malls*
1530 **BANK OF AMERICA ATM**...*Automated Teller Machines*
1530 **LUCKY FOOD CTR**...*Grocers-retail*
1530 **REDBOX**...*Video Rental Kiosks*
1530 **SAV ON PHARMACY**...*Pharmacies*
1540 **STARBUCKS**...*Coffee Shops*
1544 **KFC**...*Restaurants*
1550 **CARL'S JR**...*Restaurants*

2012 MITCHELL WAY
SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND FOR THIS YEAR...

2008 FITZGERALD DR
SOURCE: DIGITAL BUSINESS DIRECTORY

1450 **ABC TREE FARMS**...*Retail Nurseries*
1460 **LEVITZ FURNITURE**...*Furniture Stores*
1460 **LEVITZ FURNITURE**...*Furniture-dealers-retail*
1471 **GAME CRAZY**...*Hobby,toy, Game Str*
1471 **GAME CRAZY**...*Video Games*
1471 **VITAMIN SHOPPE STORE 153**...*Vitamins*
1471 **VITAMIN SHOPPE STORE 153**...*Health & Diet Fd Strs*
1473 **COLD STONE CREAMERY**...*Ice Cream Parlors*
1473 **COLD STONE CREAMERY**...*Quick Serv Ice Cream/yogurt*
1473 **FED EX KINKOS OFFICE & PRINT**...*Litho,coml Printing*
1473 **P C CLUB**...*Computers-service & Repair*
1473 **PANDA EXPRESS**...*Oriental Menu*
1473 **PANDA EXPRESS**...*Restaurants*
1473 **SUBWAY SANDWICH SHOP**...*Quick Serv Sandwich/deli*
1473 **SUBWAY SANDWICHES & SALADS**...*Restaurants*
1475 **AUTO ZONE**...*Auto, Home Sups Str*
1475 **AUTOZONE**...*Automobile Parts & Supplies-retail-new*
1477 **BRIGHT NOW MONARCH DENTAL**...*Dentists*
1477 **HAILIES HAIRCUTS**...*Beauty Salons*
1477 **HAILIES HAIRCUTS**...*Hairdressers*
1477 **HOUSEHOLD FINANCE**...*Financing*
1477 **HOUSEHOLD FINANCE CORP**...*Personal Credit Ins*
1477 **NEXTEL RETAIL**...*Radiotelephone Communication*
1477 **PINOLE DENTAL**...*Dentists Off,clinic*
1477 **PURE WEIGHT LOSS CTR**...*Weight Cont Ser*
1490 **BEST BUY**...*Electronic Equipment & Supplies-retail*
1490 **BEST BUY**...*Computer,softwr Str*
1490 **GEEK SQUAD**...*Computer Maint & Rp*
1500 **K MART DISCOUNT STORES**...*Dept Stores Discount*
1500 **KMART**...*Department Store*
1500 **OLAN MILLS PORTRAIT STUDIO**...*Photo Studio*
1501 **MOTEL 6**...*Hotels & Motels*
1501 **MOTEL 6**...*Hotels & Motels*
1502 **PAPA MURPHYS TAKE N BAKE**...*Restaurants*
1502 **PAPA MURPHYS TAKE N BAKE**...*Quick Serv Pizza Parlor*
1508 **XCEL CUTS & PERMS SALON**...*Hairdressers*
1510 **EBONY BEAUTY SUPPLY**...*Whol Service Establishment Equipment*
1510 **NEW EBONY BEAUTY SUPPLY**...*Beauty Salons-equipment & Supls (whol)*
1510 **NEW EBONY BEAUTY SUPPLY**...*Mfg Industries Nec*
1514 **ICE CREAM MANIA**...*Ice Cream Parlors*
1514 **ICE CREAM MANIA**...*Quick Serv Ice Cream/yogurt*
1515 **SIZZLER**...*Restaurants*
1515 **SIZZLER**...*Steakhouse*
1516 **BILLIES HALLMARK SHOP**...*Gift Shops*
1516 **BILLIES HALLMARK SHOP**...*Greeting Cards*
1520 **GOODYEAR TIRE & RUBBER CO**...*Automotive Tires*
1520 **GOODYEAR TIRE & RUBBER CO**...*Tire-dealers-retail*
1530 **ALBERTSONS**...*Grocers-retail*
1530 **ALBERTSONS 7080**...*Ret Groceries*
1530 **BANK OF AMERICA**...*Banks*
1530 **LUCKY**...*Grocery Stores*
1530 **SAV-ON DRUGS**...*Drug,proprietary Str*
1540 **STARBUCKS**...*Coffee Shop*
1544 **KFC**...*Quick Serv Chicken*
1550 **CARLS JR**...*Restaurants*
1550 **CARLS JR RESTAURANT**...*Quick Serv Burger*

2008 MITCHELL WAY
SOURCE: DIGITAL BUSINESS DIRECTORY

1132 **FOOD PREPRD WTH LVE BY A VAL**...*Ret Groceries*

2006 FITZGERALD DR
SOURCE: HAINES

1409 **M J K MANAGEMENT**
1430 **PET FOOD EXPRESS**
1441 **KRISPY KREME DOUGHNUTS**
1450 **MICHAEL'S STORES INC**
1460 **LEVITZ FURNITURE CORP**
1471 **HOLLYWOOD VIDEO**
1471 **THE VITAMIN SHOPPE STORE 153**
1473 **COLD STONE CREAMERY**
1473 **PANDA EXPRESS**
1473 **PC CLUB**
1473 **SUBWAY SANDWICHES & SALADS INC**
1475 **AUTOZONE**
1477 **ALLIED PACIFIC REALTY**
1477 **BRIGHT NOW DENTAL**
1477 **HALES HAIRCUTS**
1477 **HOME FINANCIAL SERVICE**
1477 **HOUSEHOLD FINANCE**
1477 **LA WEIGHT LOSS CENTERS INC**
1477 **NEXTEL RETAIL**
1477 **PINOLE DENTAL**
1477 **WAJS CLEANERS**
1490 **BEST BUY**
1493 **GAME CRAZY**
1501 **MOTEL 6**
1502 **PAPA MURPHY'S TAKE N BAKE PIZA**
1504 **WESTRN CHRISTIAN BOOK COMPANY**
1508 **XCELCUTS & PERMS**
1510 **NEW EBONY BEAUTY SUPPLY**
1514 **ICECREAM MANIA**
1515 **SIZZLER RESTAURANTS**
1516 **BILLIE'S HALLMARK SHOP**
1520 **GOODYEAR TIRE CENTER**
1540 **STARBUCKS COFFEE CO**
1541 **LONG JOHN SILVER'S SFD SHPPE**
1550 **CARL'S JR RESTAURANT**
1552 **NOAH'S BAGELS**
1552 **QUEENS NAIL**
1554 **OAMAN HAWAIIAN BARBECUE**
1556 **SCHAFFER JEWELERS**
1558 **SUPERCUTS**

2006 MITCHELL WAY
SOURCE: HAINES

1099	IRIAN FAYEZ
1100	TORRES JOSE
1101	MEGONNIGIL LAURLE
1103	MILLARD RODNEY H
1105	WILSON DONALD DEL
1107	FRANSON CHARLES
1111	RAMIREZ ROBERTO
1120	LIVINGSTON JAMES
1123	DAVIS CARL
1130	RODGIGUES JEFF
1131	WELCH BETTY
1132	VALENTINE LUCILLE W
1133	TRAVIS BEULAH
1134	XXXX
1135	DUGGER JAN

2001 FITZGERALD DR
SOURCE: HAINES

1430	PET FOOD EXPRESS
1440	ORCHARD SUPPLY
1442	KRAGEN AUTO PARTS
1442	KRAGEN AUTO PARTS-WHOLESALE
1450	HELMONDS RONALD
1460	LEVITZ FURNITURE CORP
1490	BEST BUY
1492	CENTURY THEATRES PINOLE
1500	KMART PORTRAIT STUDIO
1500	KMART STORES PINOLE
1500	KMART STORES PINOLE PHARMACY
1500	OLAN MILLS PORTRAITS STUDIOS
1500	PAPA MURPHYS PIZZA
1501	MOTEL 6
1502	CHILDREN'S EXCHANGE
1506	XXXX
1508	XCELCUTS&PERMS
1510	FASHION CLUB
1514	BASKINROBBINS 31
1515	FITZGERALD THOOMAS
1515	SIZZLER RESTAURANTS
1516	BILLIE'S HALLMARK SHOP
1516	HALLMARK THE KALEIDOSCOPE SHOP
1518	XXXX
1520	GOODYEAR TIRE CENTER
1529	XXXX
1530	LUCKY PHARMACY
1540	STARBUCKS COFFEE CO
1541	FITZGERALD THOMAS
1541	LONG JOHN SILVER'S SFD SHPPE
1544	KENTUCKY FRIED CHKN
1550	CARL'S JR RESTAURANT
1552	QUEENS NAIL
1552	NOAHS BAGELS
1554	PRETTY&PLUMP
1556	SCHAFFER JEWELERS
1558	SUPERCUTS
1560	RICKSHAW CHINESE RESTAURANT

2001 MITCHELL WAY
SOURCE: HAINES

1099	IRIAN FAYEZ
1100	TORRES JOSE
1101	MEGONNGIL JOHN
1103	MILLARD RODHEY H
1105	WILSON DONALD DEL
1107	SOUVANNALATH SOUK
1107	FRANSON CHARLES
1111	DOWTON KENNETH
1120	HAYES WALLACE
1123	DAVIS CARL
1123	DAVIS JUDITH
1130	STONE BRAIN
1130	STONE SANDY
1132	VALENTINE LUCILLE W
1133	TRAVIS BEULAH
1134	JUE BARBARA
1135	DUGGER JAN D

1996 FITZGERALD DR
SOURCE: HAINES

1430	COLOR TILE SUPRMART
1440	ORCHARD SUPPLY HDWR
1440	ORCHARD SUPPLY HDWR
1442	XXXX
1450	KRAUSES SOFA FCTRY
1450	ULTIMATE FURNITURE
1450	US ACCESS
1460	LEVITZ FRNTR CORP
1490	BEST PRODUCTS CO
1492	CENTURY THEATRES
1500	KMART PHARMACY
1500	KMART PORTRAIT STDO
1500	KMART STORES
1501	MOTEL 6
1502	A G PHOTO ONE HOUR
1502	A G PHOTO ONE HOUR
1502 #B	KIDS MART
1504	SIZES UNLIMITED
1506	XXXX
1508	X C E L C U T S
1510	CROWN BOOKS
1510	SUPER CROWN
1514	BASKIN&ROBBINS 31
1515	SIZZLER RESTAURANT
1516	HALLMARK SHP KLDSCP
1516	KALEIDOSCOPE HLLMRK
1518	MECHANICS BK OFFICE
1520	GOODYEAR TIRE CNTR
1520	HOT DOG STATION
1529	XXXX
1530	LUCKY FOOD CENTERS
1530	LUCKY PRESCRIPTIONS
1540	XXXX
1541	LONG JOHN SILVERS
1544	KENTUCKY FRIED CHKN
1550	CARLS JR RESTAURANT
1552	DAVID PORTER JEWLRY
1552	PORTER DAVID JWLRY
1554	PRETTY&PLUMP
1556	CARLSON TRVL NTWRK
1556	TRAVEL TRAVEL
1558	SUPERCUTS
1560	RICKSHAW RESTAURANT

1996 MITCHELL WAY
SOURCE: HAINES

1099	IRIAN FAYEZ G
1100	TORRES JOSE
1101	MEGONNIGIL JOHN
1103	MILLARD F BRA
1105	WILSON DONALD DEL
1107	FRANSON CHARLES
1107	PHIMPASATH L A
1107	SOUVANNALATH SOUK
1111	DOWTON KENNETH
1120	HAYES WALLACE
1123	DAVIS CARL
1123	DAVIS JUDITH
1130	STONE BRIAN
1130	STONE SANDY
1131	WELCH BETTY
1132	VALENTINE LUCILLE W
1132	VALENTINE ROBERT
1133	TRAVIS BEULAH
1134	JUE BARBARA
1135	DUGGER JAN D

1991 FITZGERALD DR
SOURCE: HAINES

1409	BEST PRODUCTS CO
1430	CAL SPAS
1440	ORCHARD SUPPLY HDWR
1440	ORCHARD SUPPLY HDWR
1442	BEAUTYWOOD FURN
1450	KRAUSES SOFA FCTRY
1460	LEVITZ FRNTR CORP
1492	CENTURY THEATRES
1500	K MART 3531
1501	MOTEL 6
1502	A G PHOTO ONE HOUR
1502	A G PHOTO ONE HOUR
1502 #B	KIDS MART
1504	SIZES UNLIMITED
1506	DIET CENTER
1508	FANTASTIC SAMS
1510	CROWN BOOKS
1514	BASKIN&ROBBINS 31
1515	SIZZLER RESTAURANT
1516	HALLMARK SHP KLDSCP
1516	KALEIDOSCOPE HLLMRK
1518	MECHANICS BK OFFICE
1520	GOODYEAR TIRE CNTR
1520	NAVY RECRUITING STA
1520	US NAVY RCRTNG STN
1529	RADIO SHACK DIV
1530	LUCKY FOOD CENTER
1530	LUCKY FOOD CENTERS
1530	LUCKY FOOD CENTERS
1540	HOMESTEAD SAVINGS
1541	LONG JOHN SILVERS
1544	KENTUCKY FRIED CHXN
1550	CARLS JR RESTAURANT
1552	DAVID PORTER JEWLRY
1552	PORTER DAVID JWLRY
1552	PORTER LTD LONDON
1554	LYNDENS&COMPANY
1554	PRETTY&PLUMP
1556	TRAVEL TRAVEL
1558	SUPERCUTS
1560	RICKSHAW RESTAURANT

1991 MITCHELL WAY
SOURCE: HAINES

1099	IRIEN SAYER
1100	XXXX
1101	XXXX
1105	WILSON DONALD DEL
1107	KUSROW FRED JR
1111	DOWTON KENNETH C
1120	HAYES WALLACE
1123	DAVIS CARL
1123	DAVIS JUDITH
1130	STONE BRIAN
1130	STONE SANDY
1132	VALENTINE ROBERT
1133	XXXX
1134	XXXX
1135	DUGGER JAN D

1987 FITZGERALD DR
SOURCE: HAINES

1409	BEST PRODUCTS CO
1492	CENTURY THEATRES
1500	K MART 3521 ATO SPL
1500	K MART 3531
1500	K MART 3531 SPORTNG
1502 #B	KIDS MART
1502 #A	WINTERS FLORIST
1504	SIZES UNLIMITED
1506	XXXX
1510	CROWN BOOKS
1514	BASKIN ROBBINS 31
1516	HALLMARK SHP KLDSCP
1516	KALEIDOSCOPE HLLMRK
1518	MECHANICS BANK OFC
1520	GOODYEAR TIRE CNTR
1520	NAVY RECRUITING STA
1520	US AF RECRUITING
1520	US NAVY MC RCRTNG
1520	US NAVY RCRTNG STN
1530	ALPHA BETA CO 591
1530	ALPHA BETA CO BAKRY
1530	ALPHA BETA CO PHAR
1530	SKAGGS ALPHA BETA
1530	SKAGGS ALPHA BETA
1530	SKAGGS ALPHA BETA
1540	HOMESTEAD SAVINGS
1541	LONG JOHN SILVERS
1544	KENTUCKY FRIED CHKN
1550	CARLS JR RESTAURANT
1552	DAVID PORTER JEWLRY
1552	GARDEN OF GEMS
1552	PORTER D FINE JWLAY
1554 #B	PEARLE VISION CNTR
1556	TRAVEL TRAVEL
1558	SUPERCUTS
1560	RICKSHAW RESTAURANT

1987 MITCHELL WAY
SOURCE: HAINES

1098	XXXX
1100	HEIHN KATHY
1101	XXXX
1106	WILSON DONALD DEL
1107	XXXX
1111	DOWTON KENNETH C
1120	HAYES WALLACE
1123	DAVIS CARL
1123	DAVIS JUDITH
1132	VALENTINE ROBERT
1132	VAN STEVEN
1133	XXXX
1134	BERGSMAN KEN
1135	C&LS PRO CLEANING

1985 FITZGERALD DR
SOURCE: HAINES

1409	BEST PRODUCTS CO
1500	K MART 3531
1500	K MART 3531 ATO SPL
1500	K MART 3531 SPORTNG
1502 #B	KIDS MART
1502 #A	WINTERS FLORIST
1504	PIC A DILLY
1506	HOT DIGGETY DOG GRM
1510	CROWN BOOKS
1514	BASKIN ROBBINS 31
1516	HALLMARK SHP KLDSCP
1516	KALEIDOSCOPE HLLMRK
1518	XXXX
1530	ALPHA BETA CO 591
1530	ALPHA BETA CO BAKRY
1530	ALPHA BETA CO PHAR
1530	SKAGGS ALPHA BETA
1530	SKAGGS ALPHA BETA
1530	SKAGGS ALPHA BETA
1540	HOMESTEAD SAVINGS
1541	LONG JOHN SILVERS
1544	KENTUCKY FRIED CHKN
1550	CARLS JR RESTAURANT
1552	GARDEN OF GEMS
1552	PORTER D FINE JWLRY
1554 #B	PEARLE VISION CNTR
1556	TRAVEL TRAVEL
1558	SUPERCUTS
1560	RICKSHAW RESTAURANT

1985 MITCHELL WAY
SOURCE: HAINES

1098	MCGOVERN JOHN
1100	HEIHN BRENDA
1100	HEIHN KEITH
1101	XXXX
1105	WILSON DONALD DEL
1107	XXXX
1111	DOWTON KENNETH C
1120	HAYES WALLACE
1123	DAVIS CARL
1133	XXXX
1134	BERGSMAN KEN
1136	C&LS PRO CLEANING

1980 FITZGERALD DR
SOURCE: HAINES

STREET NOT LISTED

1980 MITCHELL WAY
SOURCE: HAINES

1098	MCGOVERN JOHN
1100	HEIHN KEITH
1101	XXXX
1105	WILSON DONALD DEL
1107	XXXX
1111	DOWTON KENNETH C
1123	DAVIS CARL

1975 FITZGERALD DR
SOURCE: HAINES

STREET NOT LISTED

1975 MITCHELL WAY
SOURCE: HAINES

1092	LAWSON DOYLE F
1098	MCGOVERN JOHN
1100	GRANT FLORENCE F
1101	XXXX
1105	WILLSON DONALD DEL
1107	XXXX
1123	DAVIS CARL

1960 FITZGERALD DR
SOURCE: PACIFIC TELEPHONE

STREET NOT LISTED

1960 MITCHELL WAY
SOURCE: PACIFIC TELEPHONE

STREET NOT LISTED

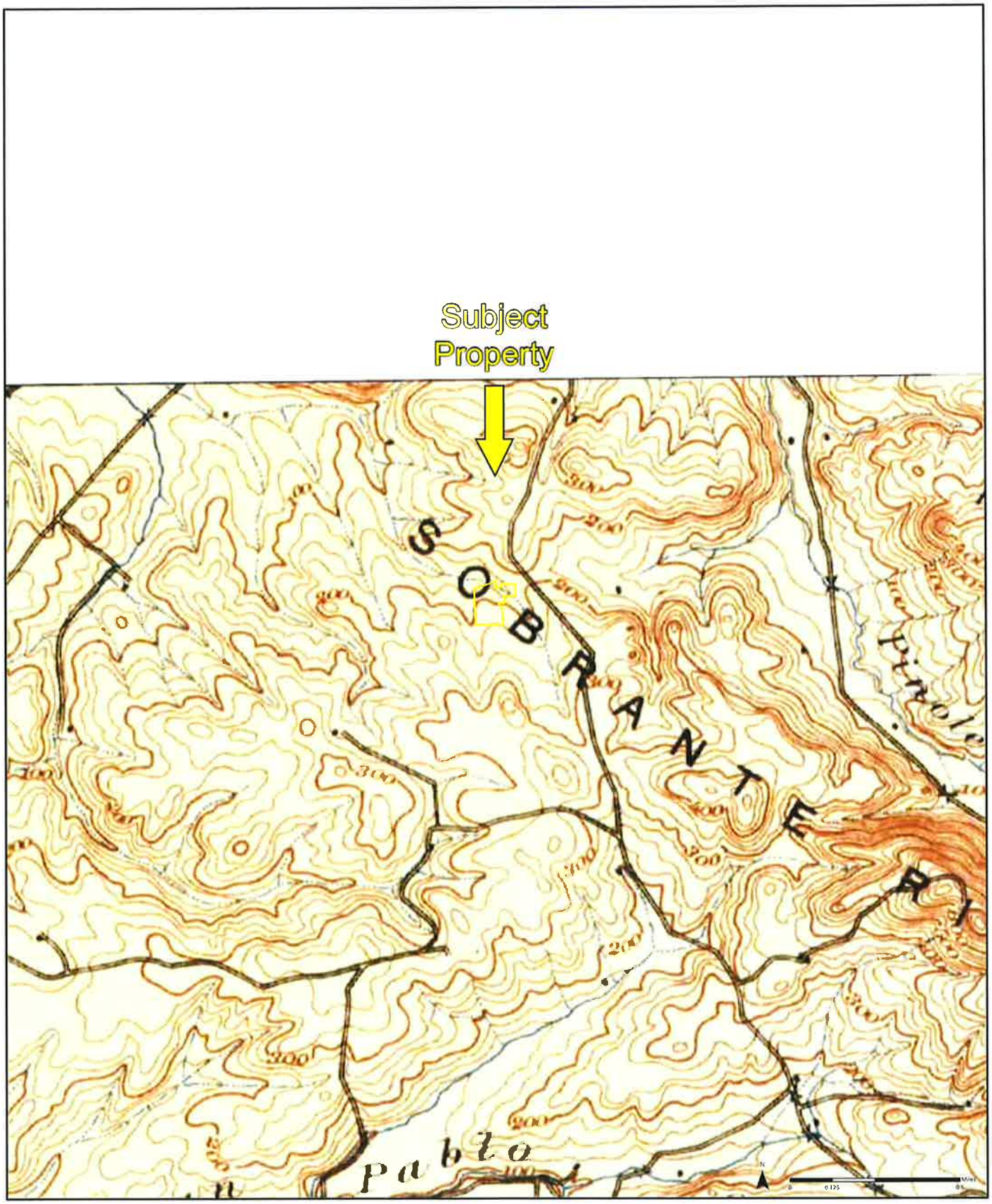
1956 FITZGERALD DR
SOURCE: PACIFIC TELEPHONE

STREET NOT LISTED

1956 MITCHELL WAY
SOURCE: PACIFIC TELEPHONE

--- END REPORT ---

STREET NOT LISTED



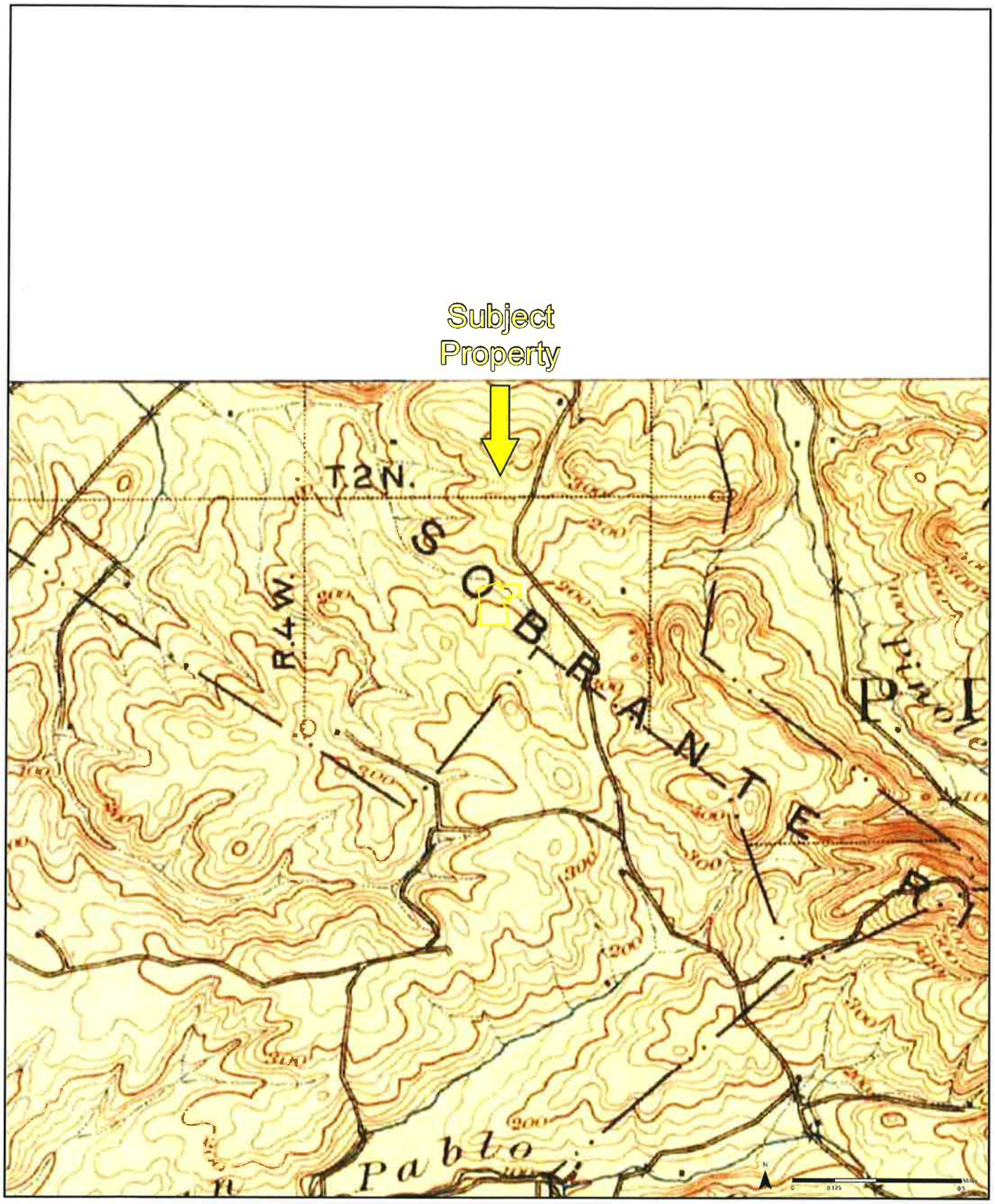
1895

Quadrangle(s): San Francisco, CA

Order No. 22011800758

Source: USGS 15 Minute Topographic Map

PARTNER



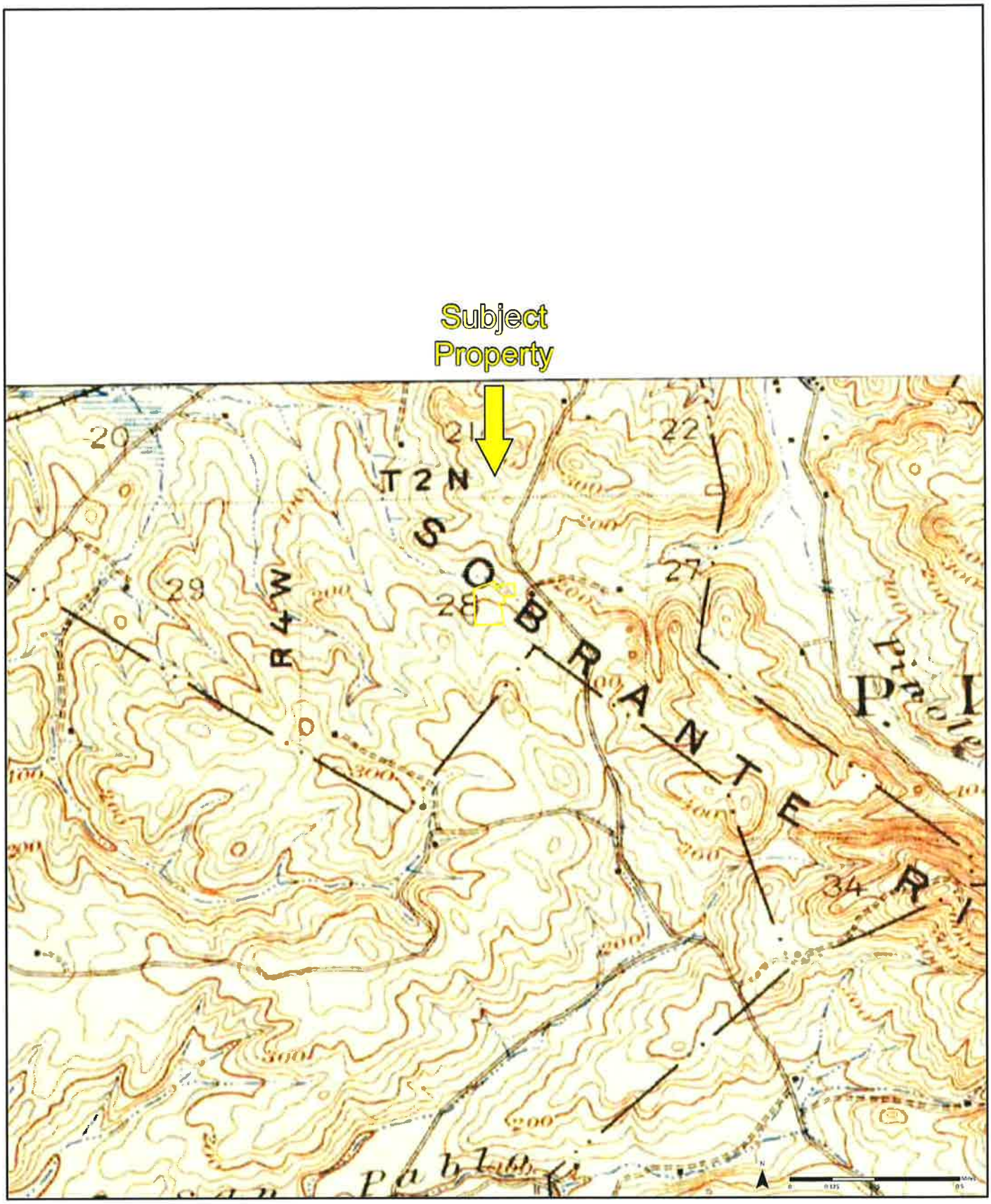
1899

Quadrangle(s): San Francisco, CA

Order No. 22011800758

Source: USGS 15 Minute Topographic Map

PARTNER



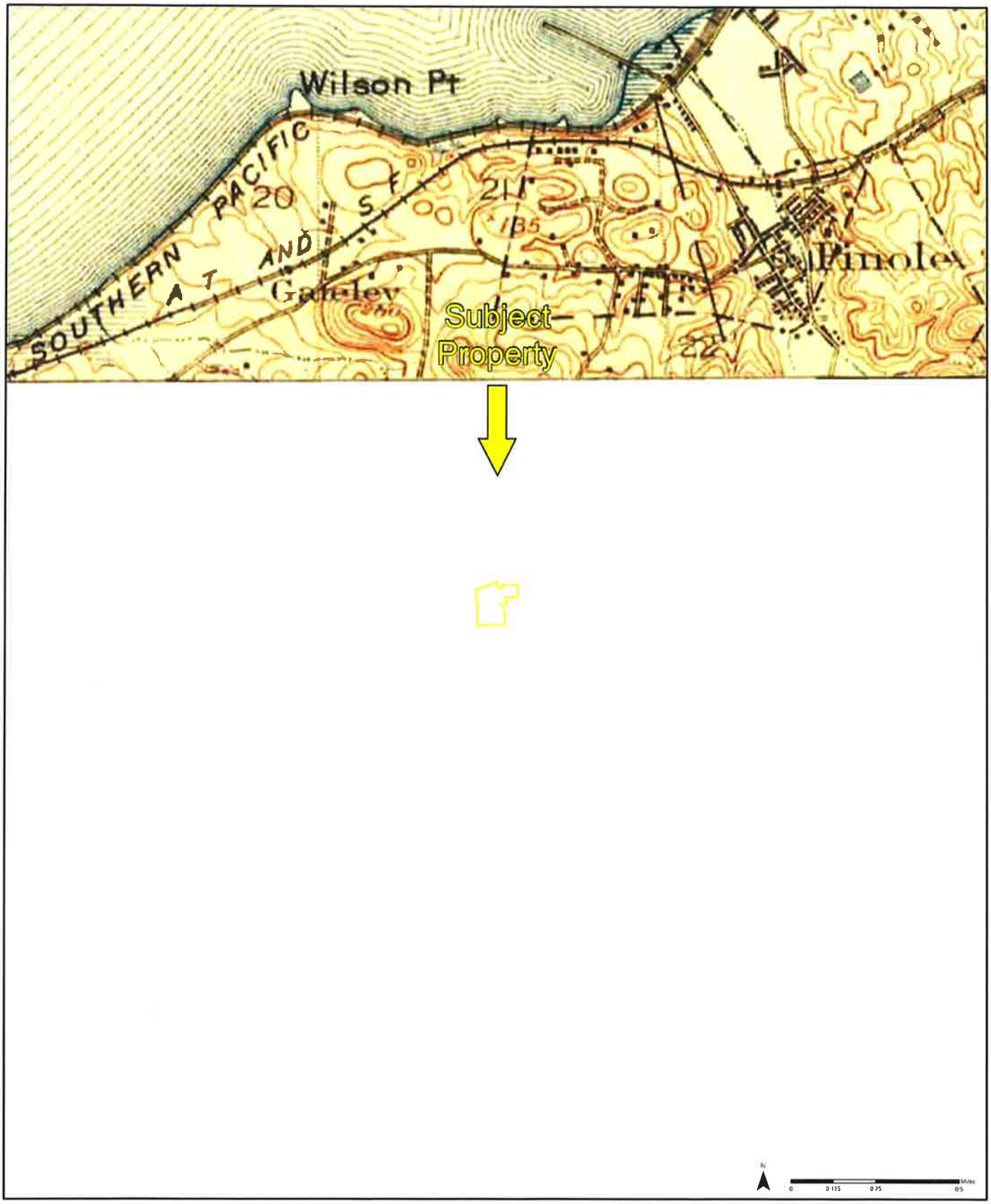
1915

Quadrangle(s): San Francisco, CA

Order No. 22011800758

Source: USGS 15 Minute Topographic Map

PARTNER



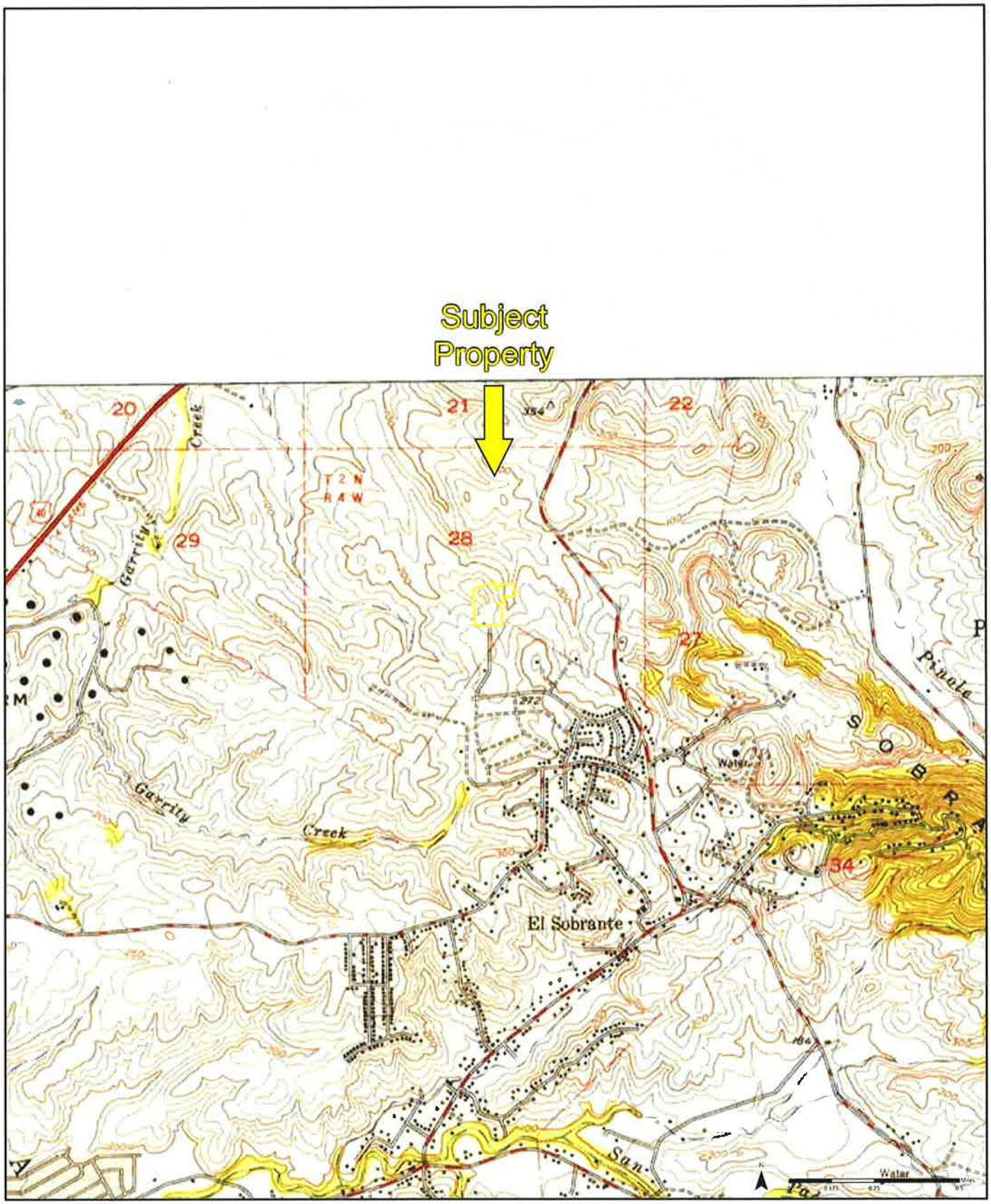
1916

Quadrangle(s): Mare Island, CA

Order No. 22011800758

Source: USGS 15 Minute Topographic Map

PARTNER



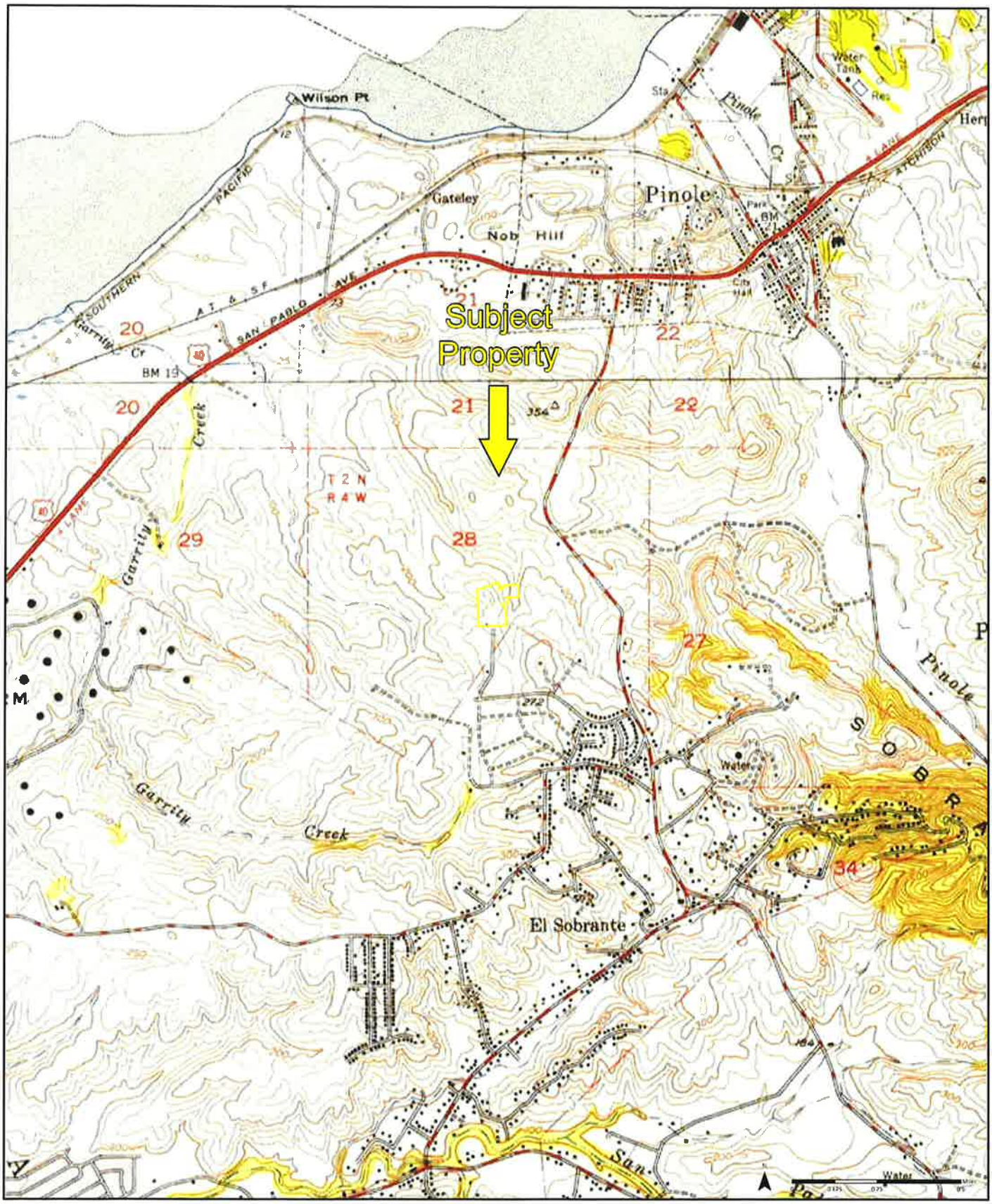
1947 [1] Aerial Photo Year: 1946

Quadrangle(s): Richmond, CA[1]

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



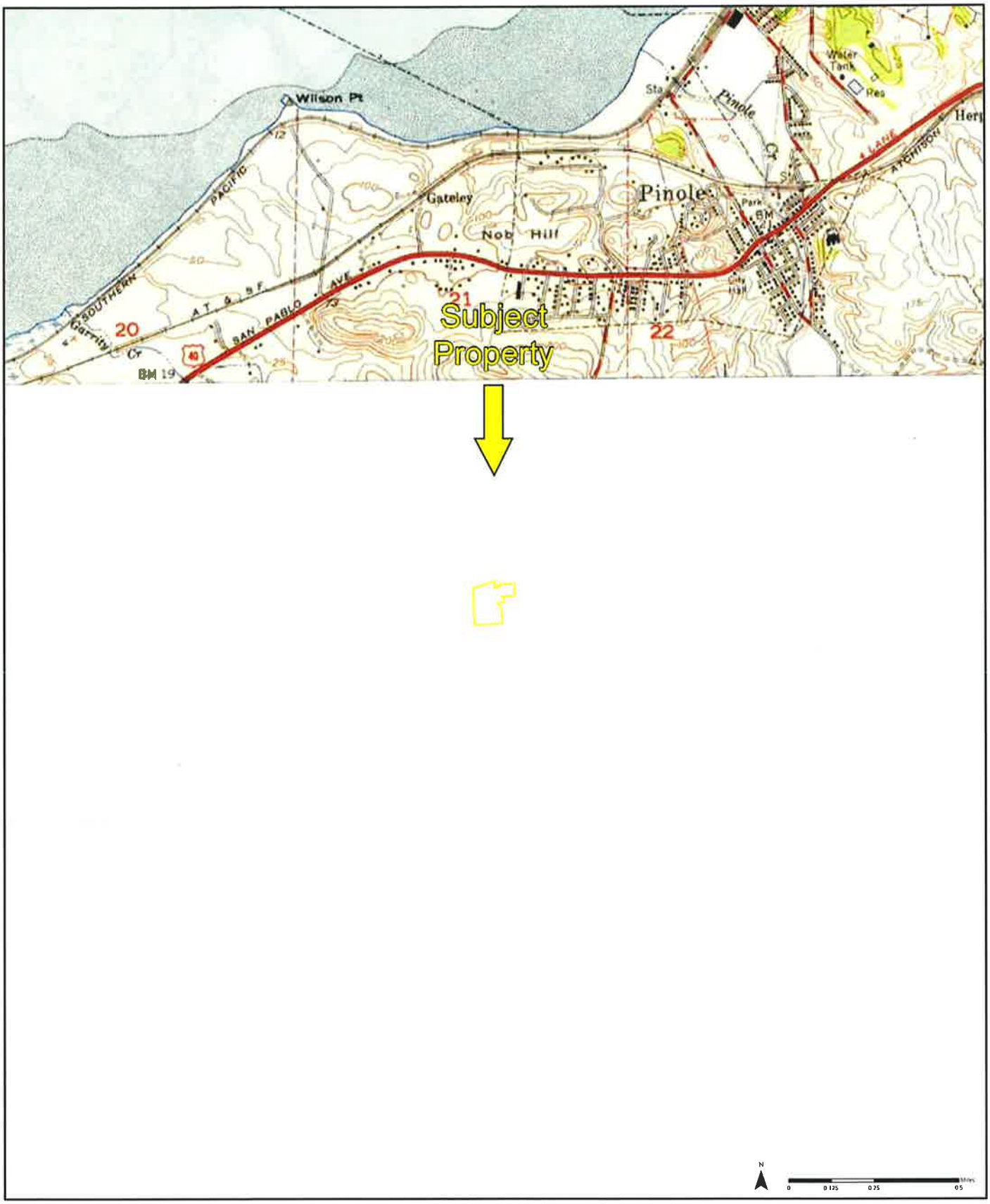
1949 [1] Aerial Photo Year: 1948 [2] Aerial Photo Year: 1946

Quadrangle(s): Mare Island, CA(1); Richmond, CA(2)

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



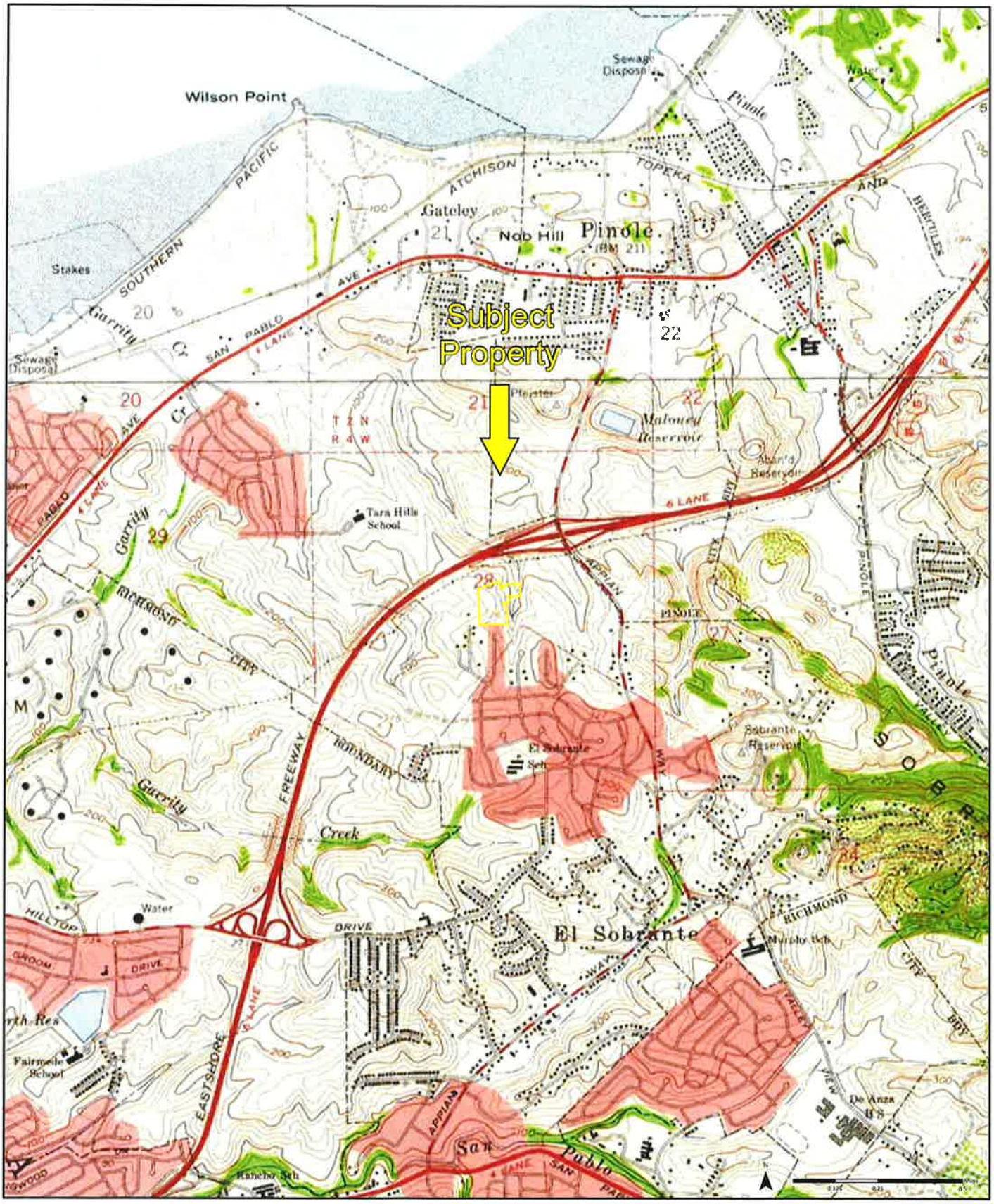
1951 *(1)*
Aerial Photo Year: 1948

Quadrangle(s): Mare Island, CA(1)

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



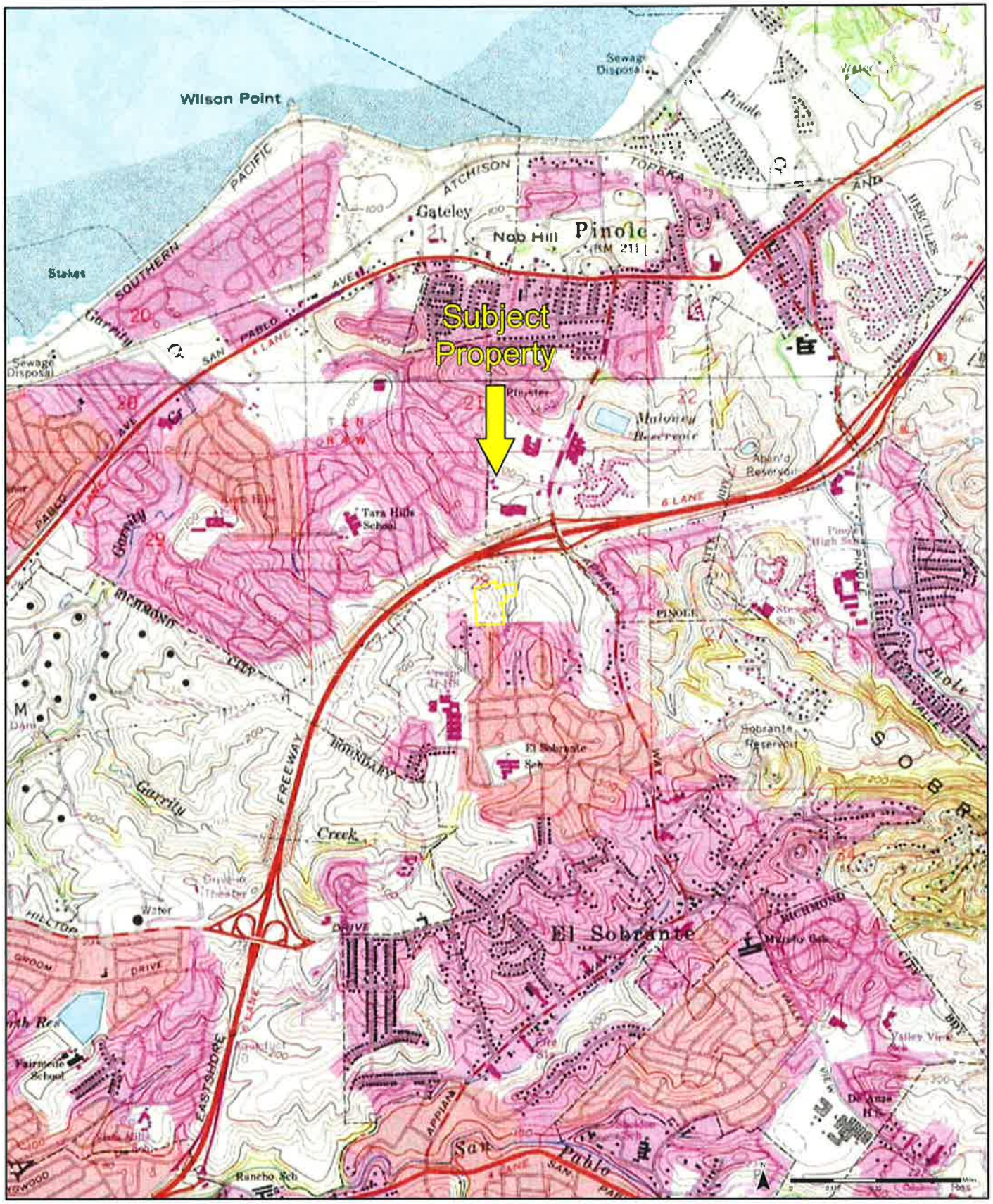
1959 [1] Aerial Photo Year: 1958 [2] Aerial Photo Year: 1958

Quadrangle(s): Richmond, CA(1); Mare Island, CA(2)

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



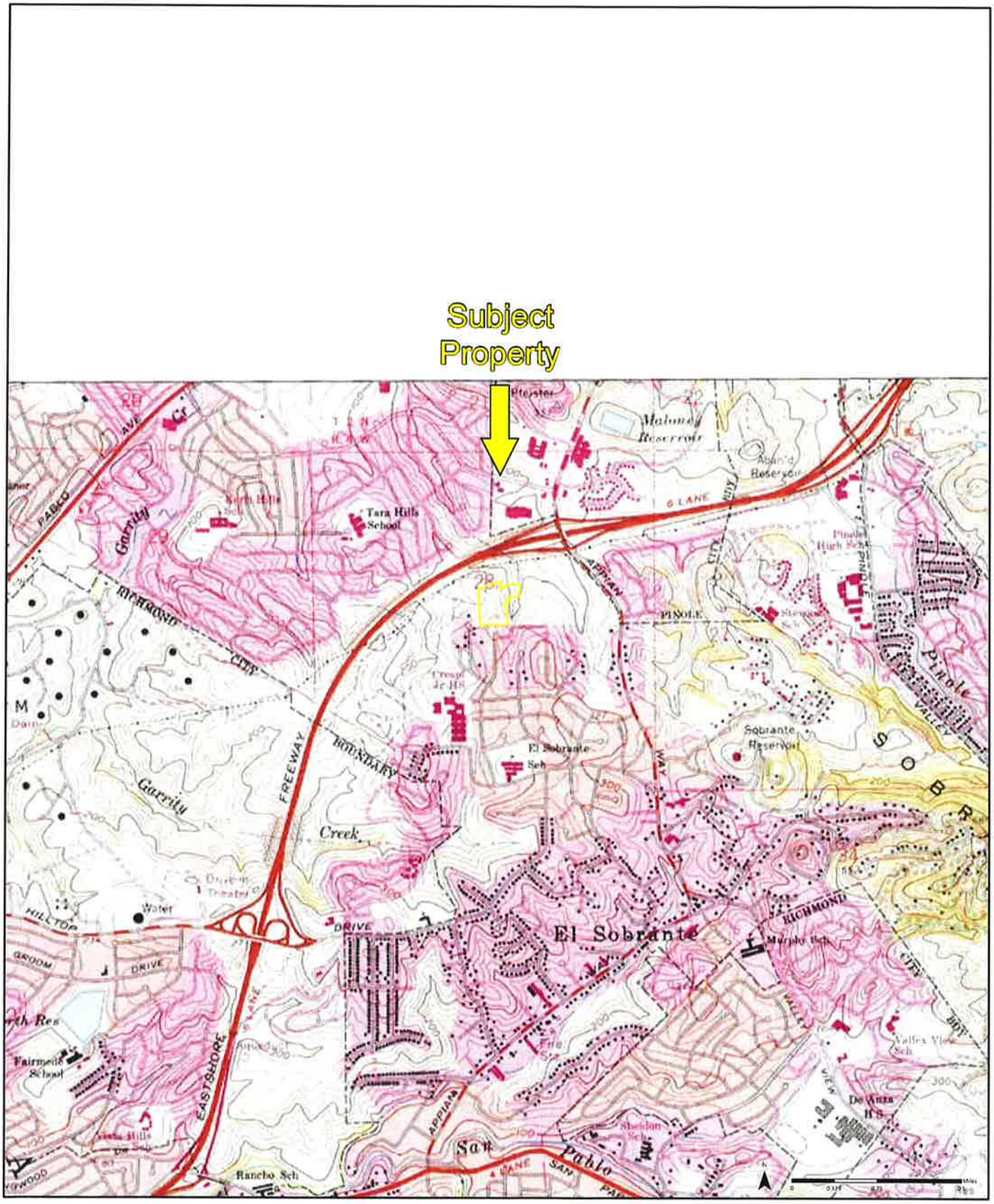
1968 (1) Aerial Photo Year: 1968 (2) Aerial Photo Year: 1968 Photo Revision Year: 1968

Quadrangle(s): Mare Island, CA(1); Richmond, CA(2)

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



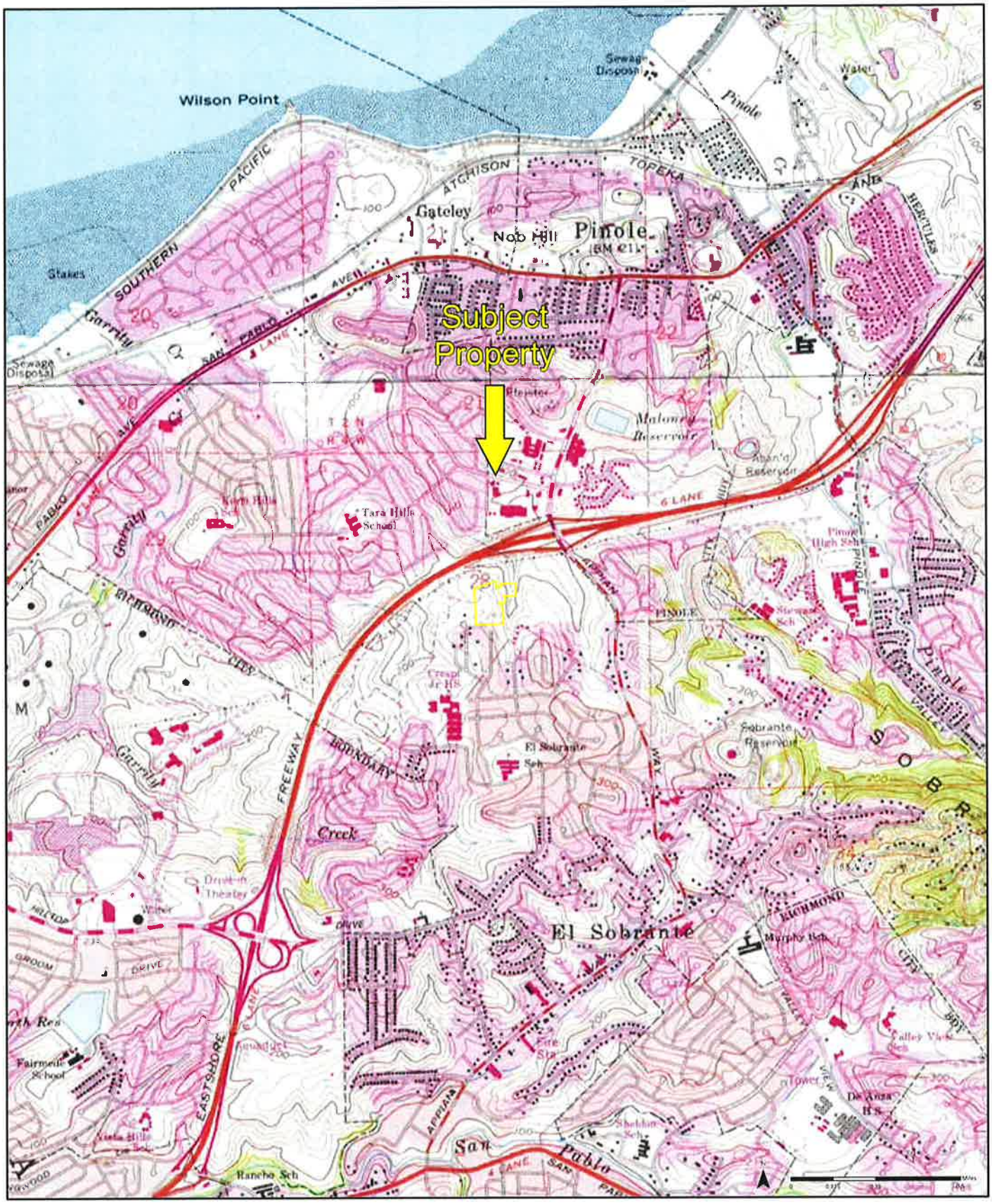
1973 [1] *Aerial Photo Year: 1973*
Photo Revision Year: 1973

Quadrangle(s): Richmond, CA[1]

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



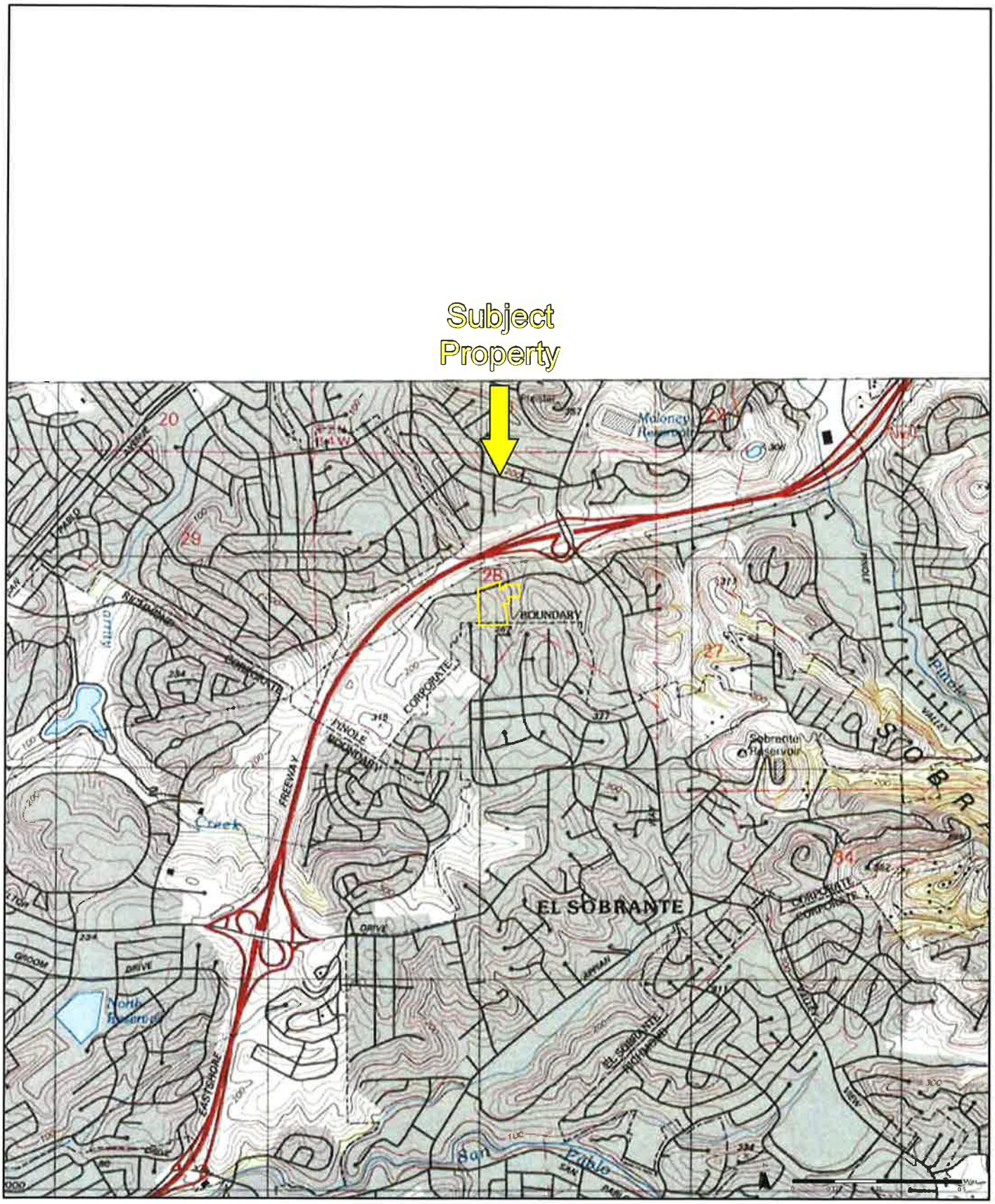
1980 (1) Aerial Photo Year: 1979 Photo Revision Year: 1980 (2) Aerial Photo Year: 1979 Photo Revision Year: 1980

Quadrangle(s): Mare Island, CA(1); Richmond, CA(2)

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



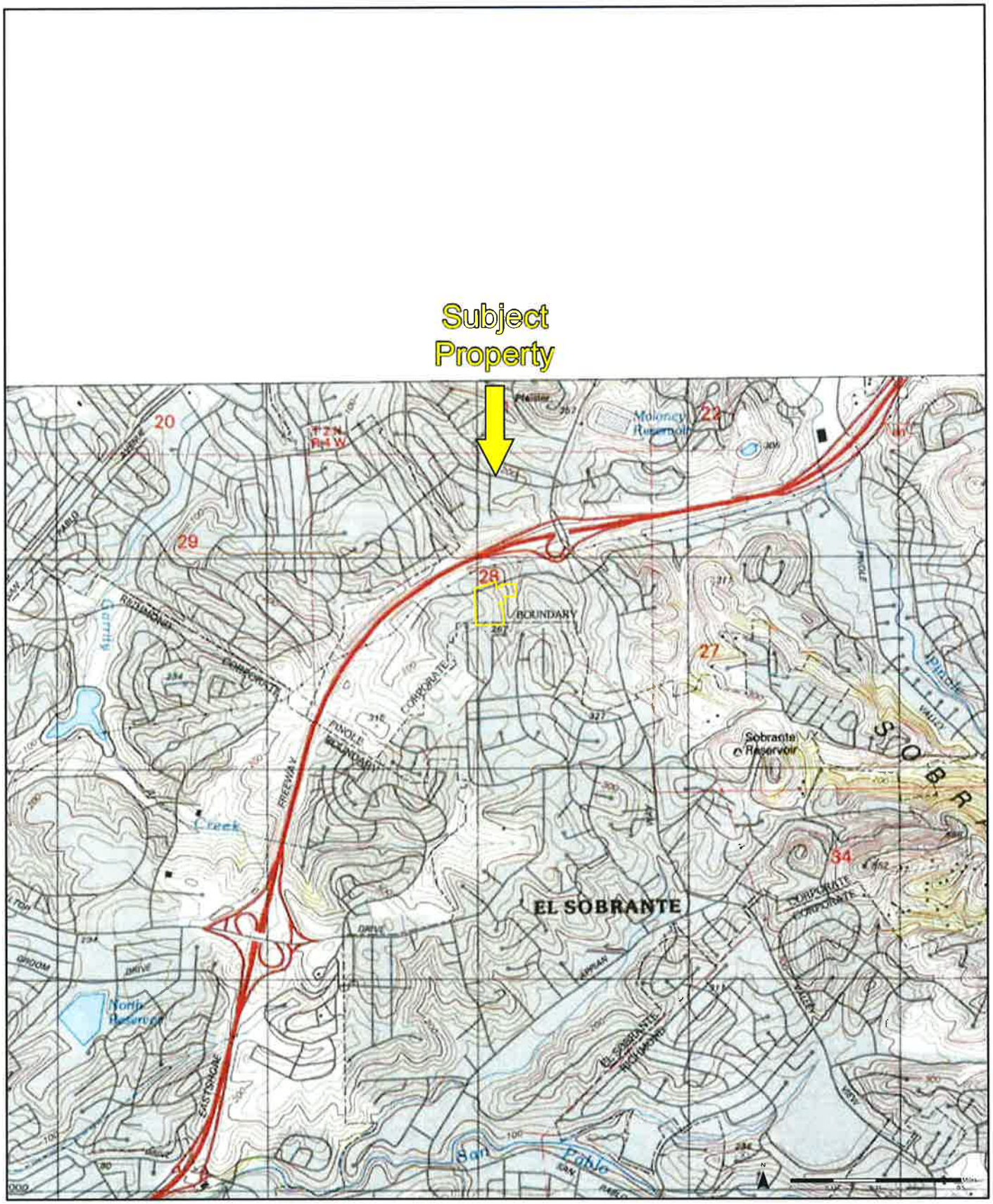
1995 [1] *Aerial Photo Year: 1993*

Quadrangle(s): Richmond, CA[1]

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



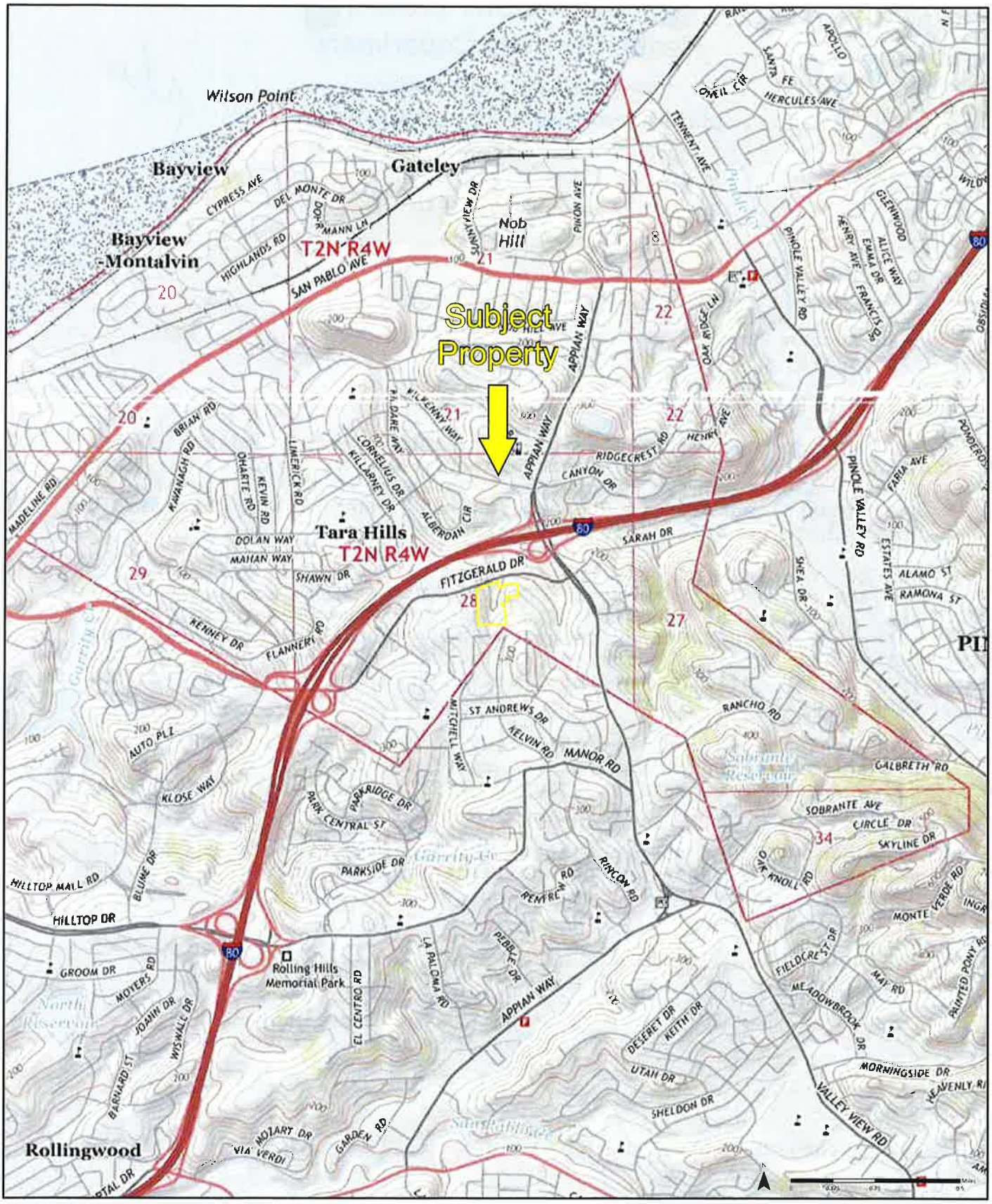
1996 [1] *Aerial Photo Year: 1993*

Quadrangle(s): Richmond, CA[1]

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER



2015

Quadrangle(s): Mare Island, CA; Richmond, CA

Order No. 22011800758

Source: USGS 7.5 Minute Topographic Map

PARTNER

Contra Costa County
Health Services Department
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH / HAZARDOUS MATERIALS

file

March 20, 1990

Mr. Mike Payne
Western Reg. Field Office
c/o K Mart 4114
5400 Auburn Blvd.
Sacramento, CA 95841

Dear Mr. Payne:

In response to your request for verification by Contra Costa County Health Services Department (CCCHSD) of compliance with State and County regulations concerning the removal of underground waste oil storage tank at K Mart, 1500 Fitzgerald Dr., Pinole, a file review has been completed.

CCCHSD records indicate that the required permits were obtained and the removal witnessed by CCCHSD. A soil sample was analyzed and the results provided to CCCHSD. The levels of total petroleum hydrocarbons as gas (TPH-G) or diesel (TPH-D) were below the minimum detection limit. A concentration of 78 ppm (parts per million) of total oil and grease was found in the sample.

CCCHSD is satisfied that this very minor contamination will not significantly impact the future use of the tank pit area. Based on present information, CCCHSD will not require additional investigation at this site.

Although CCCHSD does not speak for the Regional Water Quality Control Board, based on past experience it is unlikely that any additional concerns will be raised.

Sincerely,

Jan Lammer

Jan Lammer, Asst. Manager
Underground Tank Program

JL:no

cc: SEMCO

4333 Pacheco Boulevard • Martinez, California 94553 • (415) 646-2286

PAGE 1447 STATE WATER RESOURCES CONTROL BOARD 06/01/88

HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR CONTRA COSTA COUNTY

CONTAINER TYPES: 1,2,3,4,5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
KMART CORPORATION
P. O. BOX 3150 TROY MI 48084

II FACILITY

	MAILING ADDRESS / TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR / TELEPHONE	TYPE OF BUSINESS / NO. OF CONTAINERS
KMART ENTERPRISES 1500 FITZGERALD DRIVE PINOLE CA 94564	1500 FITZGERALD DRIVE PINOLE CA 94564		AUTO REPAIR
CROSS STREET :		(415) 223-2214	1

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: (415) 223-2214 NIGHT: ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 4144 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0000001443200 1 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: KENNEDY /1981
C. YEAR INSTALLED : 1981
D. CAPACITY (GALLONS) : 500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: WASTE OIL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 3/16 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : CATHODIC

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
PRESSURE TEST

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12035 WASTE OIL

Environmental Remediation, Construction and Consulting

January 30, 2020

San Francisco Bay Regional Water Quality Control Board
Region 2
1515 Clay Street, Suite 1400
Oakland, California 94612

Attention: Mr. Martin Musonge

SUBJECT: WELL DESTRUCTION REPORT
SHELL BRANDED SERVICE STATION
1401 FITZGERALD DRIVE (AT PINOLE VISTA)
PINOLE, CALIFORNIA 94564
WPI PROJECT: 180031
CASE: 07-0903
PLANET ID: 10005552
CLEARTRACK: P-52290

Dear Mr. Musonge:

On November 21, 2019, the San Francisco Regional Water Quality Control Board determined the subject site met the criteria for case closure. Per its requirement, the responsible party was ordered to properly destroy all site monitoring wells and dispose of all well destruction waste materials. This report, submitted by Wayne Perry, Inc. (WPI) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Equilon), documents well destruction and waste disposal procedures. A site location map and plot plan showing well locations are attached as Figures 1 and 2.

Three dual-nested groundwater monitoring wells were abandoned on January 20 through 23, 2020 in accordance with Contra Costa Environmental Health Division well destruction permits. WPI obtained Permit's 0026612, 0026613, and 0026614 on December 17, 2019 for the destruction of three dual-nested groundwater monitoring wells. Copies of the Contra Costa County Environmental Health Division permits are provided in the attachments.

Three on-site dual nested groundwater monitoring well locations (MW-1, MW-2, and MW-3) were overdrilled beyond total depth (66 feet) by Cascade Drilling (C-57 License No. 1058336) in accordance with California Well Standards. Neat cement was then pumped into each borehole using tremie pipe to 1 foot below ground surface. The borings were then patched with concrete to match the existing surface.

A list of abandoned wells and associated well construction data is provided in Table 1.

Soil cuttings from overdrilling activities, decontamination water, and construction debris were placed into DOT approved 55-gallon drums. The soil drums were temporarily stored on the Site before being transported, under manifest, to a treatment storage and disposal facility (TSDF). Driver manifests for transportation of drums are provided as attachments. A final copy of disposal documentation will be provided upon receipt under separate cover.

All work was performed under a site-specific Site Safety Health Plan and under the supervision of a California Professional Geologist.

If you have questions or require additional information regarding this report, please contact Ms. Andrea Wing of Equilon at (714) 731-1050 or Mr. John Huff of WPI at (714) 826-0352.

Respectfully submitted,
WAYNE PERRY, INC.

Sunil Patel
Staff Scientist

Michael Wielenga
California Professional Geologist 7900

PROFESSIONAL GEOLOGIST
MICHAEL WIELENGA
No. 7900
Exp. 5-31-21
STATE OF CALIFORNIA

Attachments:
- Figure 1, Site Location Map
- Figure 2, Plot Plan
- Table 1, Well Construction and Boring Data
- Contra Costa Environmental Health Division Well Destruction Permits
- Driver Waste Manifests

cc: Ms. Andrea Wing, Equilon
Ms. Rene Anabi, Property Owner Contact (Anabi Oil Company)

ATTACHMENTS

WaynePerry CONSULTING · CONSTRUCTION · ENGINEERING · MAINTENANCE SINCE 1968	DATE	SITE LOCATION MAP	FIGURE NO. 1
	REVISED	SHELL–BRANDED SERVICE STATION 1401 FITZGERALD DR. PINOLE, CA.	
	CAD FILE 180031–LM		PROJECT NO. 180031

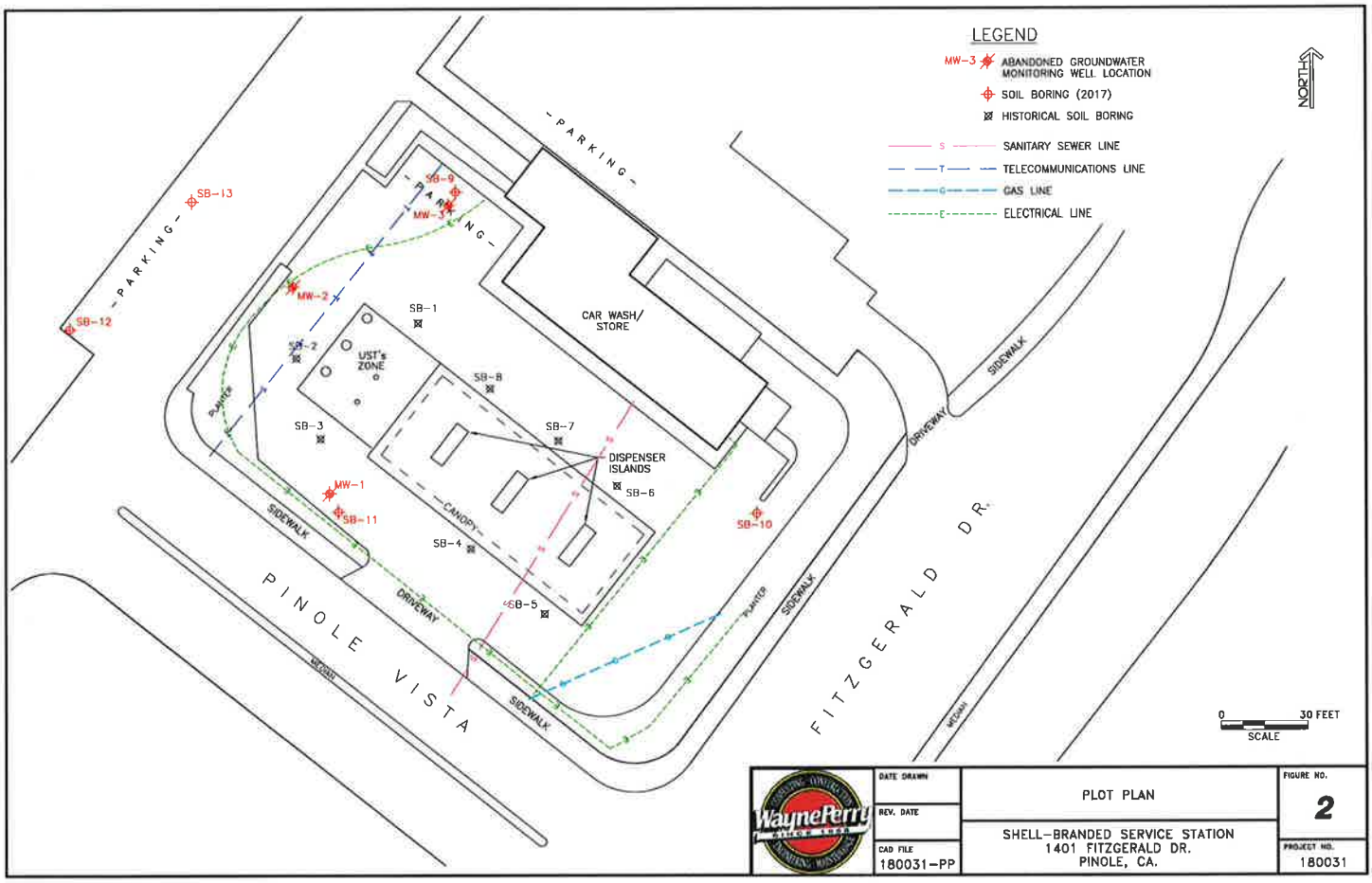

LEGEND
MW-3 ABANDONED GROUNDWATER MONITORING WELL LOCATION
SOIL BORING (2017)
HISTORICAL SOIL BORING
SANITARY SEWER LINE
TELECOMMUNICATIONS LINE
GAS LINE
ELECTRICAL LINE
NORTH
PARKING
PARKING
PARKING
SB-13
SB-12
SB-9
MW-3
MW-2
SB-1
SB-2
UST's ZONE
CAR WASH/ STORE
SB-8
SB-3
SB-7
DISPENSER ISLANDS
SB-6
MW-1
SB-11
CANOPY
SB-4
SB-10
SB-5
PLANTER
PLANTER
SIDEWALK
SIDEWALK
SIDEWALK
SIDEWALK
DRIVEWAY
DRIVEWAY
PINOLE VISTA
FITZGERALD DR.
0 30 FEET
SCALE
WaynePerry
DATE DRAWN
REV. DATE
CAD FILE
180031-PP
PLOT PLAN
SHELL-BRANDED SERVICE STATION
1401 FITZGERALD DR.
PINOLE, CA.
FIGURE NO.
2
PROJECT NO.
180031

TABLE 1
WELL/BORING DATA
SHELL BRANDED SERVICE STATION
1401 FITZGERALD DRIVE, PINOLE

Boring/ Well ID	Type	Date Installed	Surface Elevation (feet)	Total Depth (feet)	Sample Increment or Depth(s) (feet)	First Groundwater (feet)		Screen Diameter (inches)	Screen Depth (feet)		Comments
						Depth	Elevation		Top	Bottom	
MW-1	GWM Well	5/20/2019	--	20; 65	5; 5 to 65	12	--	2	10 and 50	20 and 60	Dual-nested wells
MW-2	GWM Well	5/21/2019	--	20; 65	5; 5 to 65	14	--	2	10 and 50	20 and 60	Dual-nested wells
MW-3	GWM Well	5/22/2019	--	20; 65	5; 5 to 65	--	--	2	10 and 50	20 and 60	Dual-nested wells

Note: GWM - Groundwater Monitoring

WPI Job # 180031

CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION

CONTRA COSTA HEALTH SERVICES

2120 DIAMOND BLVD. SUITE 100, CONCORD, CA 94520-5704
(925) 608-5500 FAX (925) 608-5502 www.cchealth.org/eh/

Well Permit

Permit Number: 0026612 PE Number: 4368

Date Received: December 12, 2019 WP Number: WP0026612

Issued By: JOLICER MEDRANO Date Issued: 17-Dec-2019 Date Expires: 18-Jun-2020

Intended Use: MONITORING WELL DESTRUCTION # of Borings or Well ID: MW-1

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

Project Site Information

Site Address: 1401 FITZGERALD DR., PINOLE
APN: 426 080 036 Lot/Parcel #:
Subdivisioin #: Minor Subdivision #:

Driller/Consultant Information

Driller: CASCADE DRILLING L P Contact Person: RALPH MCGAHEY
Phone #: 510-478-0858 E-Mail or Fax#: rmcgahey@cascade-env.com
Consultant: WAYNE PERRY, INC. Contact Person: ROBERT DEAMER
Phone #: 714-615-3614 E-Mail or Fax#: RDeamer@wpinc.com

Legal Owner Information

Property Owner: ANABI REAL ESTATE DEVELOPMENT Responsible Party: SAME AS OWNER
Owner Address: 1040 N BENSON AVE Address:
City/State/Zip: UPLAND, CA 91786 City/State/Zip:
Phone #: Not Specified Phone #: Not Specified

Prior to any drilling construction or destruction of a well, requests for inspection appointment must be received 48 hours in advance (excluding weekends, holidays, and Mandatory County Furlough Days) by faxing your written request to (925) 608-5502 or e-mail to ehlu@.cchealth.org. Voice mail messages are not acceptable.

Well drillers must possess a valid C-57 license and must have on file a performance bond of $5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

Well Permit Conditions:

1. Domestic Wells: Proper annular seals and surface constructioin features are to be installed and required water analyses completed within 30 days of commencing drilling.
2. Monitoring well shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
3. Other: _____

Final Approval by: _____ Date: _____

CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION

CONTRA COSTA HEALTH SERVICES

2120 DIAMOND BLVD. SUITE 100. CONCORD. CA 94520-5704
(925) 608-5500 FAX (925) 608-5502 www.cchealth.org/eh/

Well Permit

Permit Number:	0026613	PE Number:	4368
Date Received:	December 12, 2019	WP Number:	WP0026613

Issued By: JOLICER MEDRANO Date Issued: 17-Dec-2019 Date Expires: 18-Jun-2020

Intended Use:	MONITORING WELL DESTRUCTION	# of Borings or Well ID:	MW-2

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

Project Site Information

Site Address:	1401 FITZGERALD DR., PINOLE		
APN:	426 080 036	Lot/Parcel #:	
Subdivisioin #:		Minor Subdivision #:	

Driller/Consultant Information

Driller:	CASCADE DRILLING L P	Contact Person:	RALPH MCGAHEY
Phone #:	510-478-0858	E-Mail or Fax#:	rmcgahey@cascade-env.com
Consultant:	WAYNE PERRY, INC.	Contact Person:	ROBERT DEAMER
Phone #:	714-615-3614	E-Mail or Fax#:	RDeamer@wpinc.com

Legal Owner Information

Property Owner:	ANABI REAL ESTATE DEVELOPMENT	Responsible Party:	SAME AS OWNER
Owner Address:	1040 N BENSON AVE	Address:	
City/State/Zip:	UPLAND, CA 91786	City/State/Zip:	
Phone #:	Not Specified	Phone #:	Not Specified

Prior to any drilling construction or destruction of a well, requests for inspection appointment must be received 48 hours in advance (excluding weekends, holidays, and Mandatory County Furlough Days) by faxing your written request to (925) 608-5502 or e-mail to ehlu@.cchealth.org. Voice mail messages are not acceptable.

Well drillers must possess a valid C-57 license and must have on file a performance bond of $5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

Well Permit Conditions:

1. Domestic Wells: Proper annular seals and surface constructioin features are to be installed and required water analyses completed within 30 days of commencing drilling.
2. Monitoring well shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
3. Other: _____

Final Approval by: _____ Date: _____

CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION

CONTRA COSTA HEALTH SERVICES

2120 DIAMOND BLVD. SUITE 100. CONCORD. CA 94520-5704
(925) 608-5500 FAX (925) 608-5502 www.cchealth.org/eh/

Well Permit

Permit Number:	0026614	PE Number:	4368
Date Received:	December 12, 2019	WP Number:	WP0026614

Issued By: JOLICER MEDRANO Date Issued: 17-Dec-2019 Date Expires: 18-Jun-2020

Intended Use: MONITORING WELL DESTRUCTION # of Borings or Well ID: MW-3

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

Project Site Information

Site Address:	1401 FITZGERALD DR., PINOLE		
APN:	426 080 036	Lot/Parcel #:	
Subdivisioin #:		Minor Subdivision #:	

Driller/Consultant Information

Driller:	CASCADE DRILLING L P	Contact Person:	RALPH MCGAHEY
Phone #:	510-478-0858	E-Mail or Fax#:	rmcgahey@cascade-env.com
Consultant:	WAYNE PERRY, INC.	Contact Person:	ROBERT DEAMER
Phone #:	714-615-3614	E-Mail or Fax#:	RDeamer@wpinc.com

Legal Owner Information

Property Owner:	ANABI REAL ESTATE DEVELOPMENT	Responsible Party:	SAME AS OWNER
Owner Address:	1040 N BENSON AVE	Address:	
City/State/Zip:	UPLAND, CA 91786	City/State/Zip:	
Phone #:	Not Specified	Phone #:	Not Specified

Prior to any drilling construction or destruction of a well, requests for inspection appointment must be received 48 hours in advance (excluding weekends, holidays, and Mandatory County Furlough Days) by faxing your written request to (925) 608-5502 or e-mail to ehlu@.cchealth.org. Voice mail messages are not acceptable.

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Well Permit Conditions:

1. Domestic Wells: Proper annular seals and surface constructioin features are to be installed and required water analyses completed within 30 days of commencing drilling.
2. Monitoring well shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
3. Other: _____

Final Approval by: _____ Date: _____

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07	A5-1357	0011

Generator and/or Consultant

Generator's Name and Billing Address: EQUILON ENTERPRISES LLC DBA SHELL OIL PRODUCTS US (CARSON) C/O WAYNE PERRY, INC. 6281 COMMONWEALTH AVENUE BUENA PARK, CA 90621	Generator's Phone #: 714-828-0352 Person to Contact: Andres Wing FAX#:	Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	Customer Account Number
Generation Site (Transport from): *(name & address)* EQUILON ENTERPRISES LLC 10005552 1401 FITZGERALD DRIVE PINOLE, CA 94564	Site Phone #: Person to Contact: FAX#:	PLANET#: 10005552
Designated Facility (Transport to): *(name & address)* SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001 Person to Contact: JOE PROVANSAL FAX#: (760) 248-8001	RWR: 17642
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 314797	Transporter's Phone #: 949-460-5200 Person to Contact: LARRY MOOTHART FAX#: 949-460-5210	CAR000183913 460847 Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	17 DM	Soil			
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					

List any exception to items listed above: Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐ — Larry Moothart of BESI on behalf of Equilon

Signature and date: Month Day Year

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:

Signature and date: Month Day Year

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. PROVANSAL / BILL BISHOP / BARRY MEEK

Signature and date:

Please print or type.

FACILITY COPY

This Memorandum is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. [illegible]

Carrier No. _____

Date _____

Page _____ **of** _____

[illegible] (Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee [illegible]
Street [illegible]
City [illegible] State [illegible] Zip Code [illegible]

FROM:
Shipper [illegible]
Street [illegible]
City [illegible] State [illegible] Zip Code [illegible]
24 hr. Emergency Contact Tel. No. [illegible]

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
34		Alcohol DOT / Non Regulated Condensation Washing	200			

PLACARDS TENDERED: YES ☐ **NO** ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

SHIPPER

PER

CARRIER [illegible]

PER [illegible]

DATE [illegible]

4

Permanent post-office address of shipper.

PRINTED ON RECYCLED PAPER USING SOY INK STYLE CF375-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07	A5-1357	

Generator and/or Consultant

Generator's Name and Billing Address: EQUILON ENTERPRISES LLC DBA SHELL OIL PRODUCTS US (CARSON) C/O WAYNE PERRY, INC. 9281 COMMONWEALTH AVENUE BUENA PARK, CA 90621	Generator's Phone #: 714-826-0352 Person to Contact: Andrea Wing FAX#:	Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	Customer Account Number
Generation Site (Transport from): *(name & address)* EQUILON ENTERPRISES LLC 10005552 1401 FITZGERALD DRIVE PINOLE, CA 94564	Site Phone #: Person to Contact: FAX#:	PLANET#: 10005552 RWR: 17642
Designated Facility (Transport to): *(name & address)* SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001 Person to Contact: JOE PROVANSAL FAX#: (760) 246-8004	
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 314797	Transporter's Phone #: 949-460-5200 Person to Contact: LARRY MOOTHART FAX#: 949-460-5210	CAR000183913 450647 Customer Account Number

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Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	17 CM	SOIL			
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					

List any exception to items listed above: Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐
Larry Moothart of BESI on behalf of Equilon

Signature and date: Month 1 Day 30 Year 20

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: FRANK TORRES

Signature and date: Month 1 Day 30 Year 20

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. PROVANSAL / BILL BISHOP / BARRY MEEK

Signature and date:

Please print or type.

FACILITY COPY

NO. 754154

NON-HAZARDOUS WASTE DATA FORM

BESI # 314797

GENERATOR

Generator's Name and Mailing Address
EQUILON ENTERPRISES LLC DBA SHELL OIL PRODUCTS US
(CARSON) C/O WAYNE PERRY, INC.
8281 COMMONWEALTH AVENUE
BUENA PARK, CA 90621

ATTN: ANDREA WING

Generator's Phone: 714-826-0352

Generator's Site Address (If different than mailing address)
EQUILON ENTERPRISES LLC 10005552
1401 FITZGERALD DRIVE
PINOLE, CA 94564

Container type removed from site:

☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity 2

Container type transported to receiving facility:

☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WASTE LIQUIDS

GENERATING PROCESS DECON WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		95-100%-	3. SOLIDS		0-5%
2. TPH		< 1%	4.		

Waste Profile _____ PROPERTIES: pH 4-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: Larry Moothart of BESI on behalf of Equilon Enterprises LLC

Signature: [signature]

Month 1 Day 30 Year 20

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE

Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: FRANK TORRES

Signature: [signature]

Month 1 Day 30 Year 20

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC.

Phone#: 714-990-6855

Transporter 2 Printed/Typed Name: [signature]

Signature:

Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

RWR: 17658

Printed/Typed Name:

Signature:

Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

California Regional Water Quality Control Board
San Francisco Bay Region

Winston H. Hickox
Secretary for Environmental Protection

Internet Address: http://www.swrcb.ca.gov
1515 Clay Street, Suite 1400, Oakland, California 94612
Phone (510) 622-2300 FAX (510) 622-2460

Gray Davis
Governor

Date: December 13, 2001
File No: 07-0781 (SR)

ExxonMobil Refining and Supply
Attn: Mr. Darin L. Rouse
P.O. Box 4032
Concord, California 94524-4032

Subject: **Case Closure - Underground Storage Tank – Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, Contra Costa County**

Dear Mr. Rouse:

This letter confirms the completion of site investigation and remedial action for the underground storage tank formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based upon the available information, including the land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Titles 23, California Water Code of Regulations, Division 3, Chapter 16, Section 2721(e). If change in land use is proposed, the owner must promptly notify this agency.

Please contact our office, if you have any questions regarding this matter.

Sincerely,

for Loretta K. Barsamian
Executive Officer

cc:
Mr. Paul Andrews
CCCHSD
4333 Pacheco Blvd.
Martinez, CA 94553

Mr. Steven Mizera
UST Cleanup Fund

Mr. Glenn Matteucci
Environmental Resolutions, Inc.
73 Digital Drive, Suite 100
Novato, California 94949-5791

California Regional Water Quality Control Board
San Francisco Bay Region

Winston H. Hickox
Secretary for Environmental Protection

Internet Address: http://www.swrcb.ca.gov
1515 Clay Street, Suite 1400, Oakland, California 94612
Phone (510) 622-2300 FAX (510) 622-2460

Gray Davis
Governor

Date: December 13, 2001
File No: 07-0781 (SR)

ExxonMobil Refining and Supply
Attn: Mr. Darin L. Rouse
P.O. Box 4032
Concord, California 94524-4032

Subject: **Transmittal of Closure Letter and Site Closure Summary, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, Contra Costa County**

Dear Mr. Rouse:

Please find attached, the uniform underground storage tank closure letter and the site closure summary for the subject site. Please contact Sampath Rangarajan of my staff at (510) 622-2381 or e-mail sr@rb2.swrcb.ca.gov if you have any questions regarding this matter.

Sincerely,

Stephen A. Hill
Chief, Toxics Cleanup Division

For: Loretta K. Barsamian
Executive Officer

cc:
Mr. Paul Andrews
CCCHSD
4333 Pacheco Blvd.
Martinez, CA 94553

Mr. Steven Mizera
SWRCB

Mr. Glenn Matteucci
Environmental Resolutions, Inc.
73 Digital Drive, Suite 100
Novato, California 94949-5791

Site Summary Form

12-Dec-01

Site: EXXON **RB File No.:** 07-0781 SR Yes **County:** 07

2401 APPIAN WY, PINOLE, CA

Nearest Surface Water: Maloney Reservoir 1,980 ft **Pit Samples Submitted?:** No **Highest GW Depth:** 9.95

Potential Ecological Risk: None **No. Borings:** **Lowest GW Depth:** 29.04

Distance to Wells: No wells w **Affected?:** No **No. Wells:** 4 **Direction of GW Flow:** NE and SW

Human Health Risk: None **Ground Elev:**

Staff Notes: Grant Case Closure for the site

Geology: clay with a trace of silt, clayey sand, very fine grained sand.

Comments: Site is an active station. Tanks upgraded; product lines and dispenser upgrade in April 1998. About 67 cu yds of soil disposed of at an offsite landfill during this upgrade. Four groundwater monitoring wells at the site. Routine groundwater monitoring since Nov 98 until Sept 2000. Benzene detected only once in MW-1 at 0.65 ppb (Feb 2000). No benzene or MTBE in MW-2 and MW-3. MtBE concentrations in MW-4 are decreasing (most recent at 26 ppb; 9/2000). Nearest known sensitive receptor (Maloney Reservoir) is about 2,000 feet north of site - MtBE concentration of 26 ppb is less than the aquatic criteria of 8,000 ppb. No drinking water wells within 2,000 ft radius of the site. Site is a Low Risk Groundwater Case and can be closed.

Management Rqmts:

Reports: Baseline Environmental Investigation-12/22/98. Routine GW Monitoring Reports by ERI (quarterly); MW destruction and Site Closure Summary Report (Env. Resolutions) dated 04/05/2001

Remedial Activity

	Action Taken	Amount
Free Product:		
Soil:	Disposed at offsite landfill	67.3 cu. Yds
Ground Water:		0
Vapor:		0

Groundwater Results, ppb

DATE	LOCATION	TPH-G	TPH-D	BENZENE	TOLUENE	XYLENE	ETHYLBENZE	MTBE	HVOC	OTHERS	GW DEPTH
12/7/99	MW-1	<50	<50	<0.5	<0.5	<0.5	<0.5	<2			14.15
2/25/00	MW-1	<50	50	0.65	0.95	13.7	2.5	<2			12.91
5/25/00	MW-1	<50	160	<0.5	<0.5	<0.5	<0.5	<2			17.35
9/28/00	MW-1	<50	130	<0.5	<0.5	<0.5	<0.5	<2			14.17
12/7/99	MW-2	<50	530	<0.5	<0.5	<0.5	<0.5	<2			29.04
2/25/00	MW-2	<50	570	<0.5	<0.5	<0.5	<0.5	<2			24.77
5/25/00	MW-2	<50	570	<0.5	<0.5	<0.5	<0.5	<2			15.25
9/28/00	MW-2	<50	360	<0.5	<0.5	<0.5	<0.5	<2			16.66
12/7/99	MW-3	<60	<200	<0.5	<0.5	<0.5	<0.5	<2			14.98
2/25/00	MW-3	<50	90	<0.5	<0.5	<0.5	<0.5	<2			14.67
5/25/00	MW-3	<50	<50	<0.5	<0.5	<0.5	<0.5	<2			17.17
9/28/00	MW-3	<50	<51	<0.5	<0.5	<0.5	<0.5	<2			13.97
11/19/98	MW-4	<50	<50	<0.50	<0.50	<0.50	<0.50	200			12.02
3/5/99	MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5	150			13.65
8/3/99	MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5	67			12.92
12/7/99	MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5	51			12.82
2/25/00	MW-4	<50	240	<0.5	<0.5	<0.5	<0.5	22			9.95
5/25/00	MW-4	<50	160	<0.5	<0.5	<0.5	<0.5	41			11.95
9/28/00	MW-4	<50	<51	<0.5	<0.5	<0.5	<0.5	26			11.57

Soil Results, ppm

	TPH-gas		TPH-diesel		Benzene		Toluene		Xylene		Ethyl-benzene		MtBE		Other	
LOCATION	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
11/4/98--S-10-B4	<1.0		<1.0		<0.005		<0.005		<0.005		<0.005		0.04			

Tank Information

TANKNO	SIZE	CONTENTS	REMOVED	ACTION	DATE

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Agency Name: S.F.B.R.W.Q.C.B.	Address: 1515 Clay Street, Suite 1400
City/State/Zip: Oakland, CA 94612	Phone: (510) 622-2300
Responsible Staff Person: Loretta Barsamian	Title: Executive Officer

II. SITE INFORMATION

Site Facility Name: Former Exxon Service Station 7-6141	
Site Facility Address: 2401 Appian Way Pinole, Ca 94947	
RWQCB LUST Case No.:	URF Filing Date:
Responsible Parties (include addresses and phone numbers)	
Mr. Darin L. Rouse ExxonMobil Refining and Supply, P.O. Box 4032 Concord, California 94524-4032 925-246-8768 Mr. Winson B. Low Environmental and Safety Affairs Department One Valero Place, MS-06E San Antonio, Texas 78212	

Tank No.	Size in Gallons	Contents	Closed In Place/Removed?	Date
	12,000	3 UST Gasoline	Active	
	6,000	1 UST Diesel	Active	

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

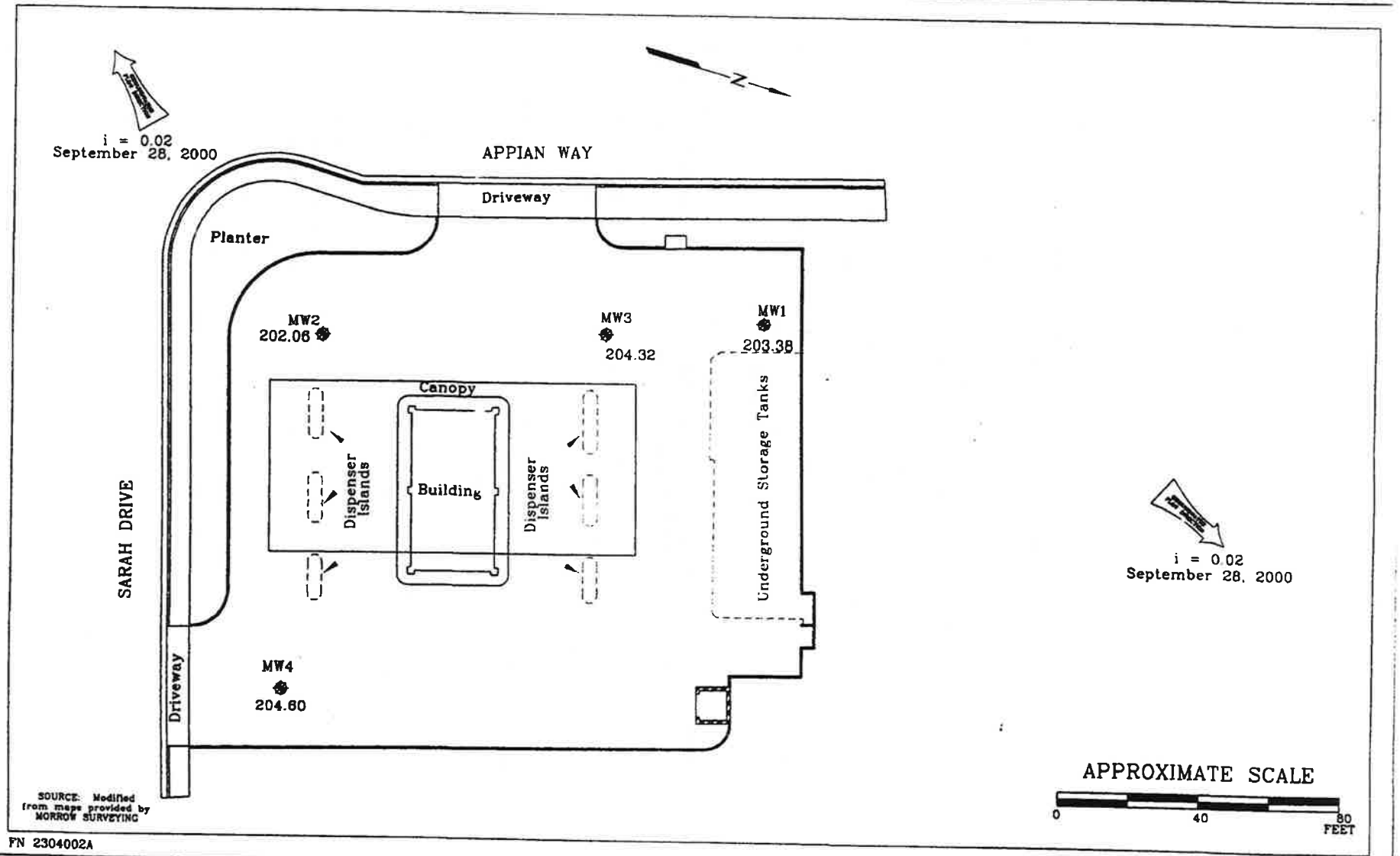
Cause and Estimated Quantity of Release: Unknown		
Nearest Surface Water Bodies (including any unnamed creeks, tributaries, canals etc.): **Maloney Reservoir** **Sorbante Reservoir** **Pinole Creek**	Their Geographical Distances From the Site: **Maloney Reservoir** ~1,980 ft north of the site **Sorbante Reservoir** ~2,640 ft south of the site **Pinole Creek** ~ 3,960 ft west of the site.	
Nearest Domestic Water Wells (both public and private) within 2000 foot radius. No domestic wells within 2,000 foot radius.	Their Geographical Distances From the Site: N/A	
Monitoring Well Minimum Groundwater Depth : 9.95 feet	Monitoring Well Maximum Groundwater Depth: 29.04 feet	Flow Direction: NE and SW

Site characterization complete? Yes	
Number of Monitoring Wells: 4	Number of Monitoring Wells: 4 (MW1, MW2, MW3, MW4). Proper screen interval: Yes

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	**Amount (Include Units)**	**Action (Treatment or Disposal w/Destination)**	**Date**
Product Lines	5 product lines	Disposal/unknown	April 1998
Soil	67.3 yd^3	67.3y^3 transported to Browning-Ferris Industries (BFI) in Livermore, California for disposal.	May 1998
Dispenser	5 dispensers	Disposal/unknown	April 1998
Vapor	0		
COMMENTS			

V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

Environmental Resolutions, Inc. June 25, 1998, Environmental Work Related to EPA Retrofit, Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230432.RO1. **Environmental Resolutions, Inc. December 22, 1998, Report For a Baseline Environmental Investigation at Exxon Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230402.R01** **Environmental Resolutions, Inc. December 18, 1998, Sensitive Receptor Survey WorkScope, at Exxon Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230402.SRS.** **Environmental Resolutions, Inc. December 19, 2000, Quarterly Groundwater Monitoring Report, Fourth Quarter 2000, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO8** **Environmental Resolutions, Inc. October 31, 2000, Quarterly Groundwater Monitoring Report, Third Quarter 2000, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO7** **Environmental Resolutions, Inc. June 30, 2000, Quarterly Groundwater Monitoring Report, Second Quarter 2000, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO6** **Environmental Resolutions, Inc. March 17, 2000, Quarterly Groundwater Monitoring Report, First Quarter 2000, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO5** **Environmental Resolutions, Inc. August 27, 1999, Quarterly Groundwater Monitoring Report, Third Quarter 1999, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO3** **Environmental Resolutions, Inc. July 8, 1999, Quarterly Groundwater Monitoring Report, Second Quarter 1999, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO2** **Environmental Resolutions, Inc. April 27, 2000, Quarterly Groundwater Monitoring Report, First Quarter 1999, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO1** **Environmental Resolutions, Inc. January 4, 1999, Quarterly Groundwater Monitoring Report, Fourth Quarter 1999, Former Exxon Service Station 7-6141, 2401 Appian Way, Pinole, California. ERI 230413.RO4**	Date:



ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-6141
2401 Appian Way
Pinole, California

EXPLANATION

MW4 Destroyed Groundwater Monitoring Well
204.60 Groundwater elevation in feet above mean sea level
i = Interpreted Groundwater Gradient

PROJECT NO. 2304

PLATE 2

TOPOGRAPHY

- Topographic map.Include an 8 1/2 x 11 color USGS topographic map section with the site centered on the map. Indicate location of site and any surrounding municipal or private water wells.

- Is the land surrounding the site relatively flat:
  Yes ____ No X

  If "No," then indicate downhill direction from site.

  N: ____ N/E: ____ E: ____ S/E: ____ S: ____ S/W: ____ W: ____ N/W: X

PICTURES

- Stand over the underground storage tanks at the site and take one picture in the downhill direction. If the land surrounding the site is relatively flat, then this picture is not necessary.

UTILITY VAULT

- Are there any utility vaults located on or adjacent to the site?
  Yes X No ____

  If "Yes," then complete the following information (for each vault).

Vault # 1

Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: X E: ____ S: ____ W: ____

Depth of Vault:
_____ Feet Unknown: X

Vault # 2

Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: ____ E: ____ S: ____ W: X

Depth of Vault:
_____ Feet Unknown: X

Vault # 3

Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: ____ E: ____ S: X W: ____

Depth of Vault:
_____ Feet Unknown: X

Vault # 4
Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: ____ E: ____ S: X W: ____

Depth of Vault:
_____ Feet Unknown: X

Vault # 5
Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: ____ E: ____ S: X W: ____

Depth of Vault:
_____ Feet Unknown: X

Vault # 6
Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: ____ E: ____ S: X W: ____

Depth of Vault:
_____ Feet Unknown: X

Vault # 7
Type of Vault:
Electric: X Telephone: ____ Gas: ____ Water: ____ Unknown: ____

Near Which Property Boundary:
N: ____ E: ____ S: X W: ____

Depth of Vault:

_____ Feet Unknown: X

Vault # 8

Type of Vault:

Electric: ____ Telephone: ____ Gas: ____ Water: X Unknown: ____

Near Which Property Boundary:

N: ____ E: X S: ____ W: ____

Depth of Vault:

_____ Feet Unknown: X

Recopy this section and provide the information for each additional vault as needed.

BUILDINGS WITH BASEMENTS

- Drive the area within 1,000 feet of the site. Do any of the buildings within 1,000 feet of the site have basements?

  Yes ____ No X

  If "Yes," then complete the following information for the nearest three basements.

  Type:

  Residence: ____ Office Building: ____ Commercial: ____

  ____ Other (Describe): _____

  Distance from Site(in feet):

  (<100): ____ (100 to 500): ____ (500 to 1,000): ____ (1,000 to 2,000): ____ (>2,000): ____

  Direction from Site:

  N: ____ N/E: ____ E: ____ S/E: ____ S: ____ S/W: ____ W: ____ N/W: ____

Recopy and complete this section as necessary for each of the three nearest basements.

SUBWAY/TUNNEL

- Is there a subsurface mass transit system or tunnel walkway located within 1,000 feet of the site?

  Yes ____ No X

  If "Yes," then complete the following information:

  Name: _____

  Minimum Distance between Site and Subway/Tunnel (in feet):

  (<100): ____ (100 to 500): ____ (500 to 1,000): ____ (1,000 to 2,000): ____ (>2,000): ____

  Direction from Site to Subway/Tunnel:

  N: ____ N/E: ____ E: ____ S/E: ____ S: ____ S/W: ____ W: ____ N/W: ____

STORM SEWER

- Are there any storm sewer drains located on or adjacent to the site?
  Yes X No ____

  If "Yes", then indicate the location on the site sketch. Denote sewer location with S.

SURFACE BODY OF WATER

- Is there a surface body of water located within 1,000 feet of the site?
  Yes ____ No X

  If "Yes", then complete the following information:

  Name: _____

  Type:
  Lake: ____ River: ____ Creek: ____ Pond: ____ Flood Control Ditch: ____

  Closest Distance between Site and Water (in feet):
  (<100): ____ (100 to 500): ____ (500 to 1,000): ____ (1,000 to 2,000): ____ (>2,000): ____

  Direction From Site to Water:
  N: ____ N/E: ____ E: ____ S/E: ____ S: ____ S/W: ____ W: ____ N/W: ____

  Is this topographically down hill from the site?
  Yes ____ No ____

Repeat this entire section as needed for additional bodies of water within 1,000 feet of the site.

PICTURE

- If there is a surface body of water that is visible from the site, then stand on the site and take a picture of the body of water.

MUNICIPAL WATER WELLS

- Based on a review of available public records, list all municipal water supply wells within 2,000 feet of site (in Municipal Water Well section, below). Include copies of all data obtained on the wells in an appendix; i.e., well reports, etc. Verify the location of the listed wells in the field.

- Are the municipal water wells at the listed locations?
  Yes ____ No ____

  Explain any discrepancies: **No municipal wells within 2,000 feet of site.**

  Drive the area within 2,000 feet of the site. Are there any other obvious municipal water wells within 2000 feet of the site?
  Yes ____ No **X**

Complete the following for each Municipal Well within 2,000 feet of the site:

Municipal Water Well

Distance from Site:
(<100): ____ (100 to 500): ____ (500 to 1,000): ____ (1,000 to 2,000): ____ (>2,000): ____

Direction from Site:
N: ____ N/E: ____ E: ____ S/E: ____ S: ____ S/W: ____ W: ____ N/W: ____

Screened Depth of Well:
_____ Feet

Repeat this section as necessary for each additional Municipal water well within 2,000 feet.

PRIVATE WATER WELLS

- Based on a review of available public records list all private water wells within 1,000 feet of the site (in an appendix or attachment). Verify the location of the closest three wells.

- Is the location correct?
  Yes ____ No ____

  Explain any discrepancies: **No private wells within 1,000 feet of site.**

Drive the area within 1,000 feet of the site. Are there any other private water wells visible within 1,000 feet of the site?
Yes ____ No X

Is there a water well located on the retail site?
Yes ____ No X

If yes on any of the above questions, then complete the following information for the three closest private wells:

Private Water Well

List actual distance from site to well if less than 500 feet: _____ Feet

Distance from Site to Well (in feet):
(<100): ____ (100 to 500): ____ (500 to 1,000): ____ (1,000 to 2,000): ____ (>2,000): ____

Direction from Site to Well:
N: ____ N/E: ____ E: ____ S/E: ____ S: ____ S/W: ____ W: ____ N/W: ____

Distance between the closest Municipal Water Connection and Private Well:
(<100): ____ (100 to 500): ____ (500 to 1,000): ____ (1,000 to 2,000): ____ (>2,000): ____

Screened Depth of Well:
_____ Feet

Is the well being used?:
Yes ____ No ____ Unknown ____

Repeat this Section as needed for the three closest Private water wells.

WATER SUPPLY

Describe the type of local water supply in the area.

Public X
Suppliers' Name **East Bay Municipal Utilities District**
Suppliers' Source **San Pablo Reservoir**
Source Distance and Direction from Site **6 miles southeast of the site.**
Private ____

If private list distance and direction to nearest available public source.
Distance and Direction to Source ____

AQUIFER INFORMATION

List Aquifer Classification:

Class I
- ____ Special Ground Waters
- ____ Irreplaceable Drinking Water Source
- ____ Ecologically Vital

Class II
- X Current and Potential Drinking Water Sources

Class III
- ____ Not Potential Source of Drinking Water

- Is this a sole source aquifer?
  Yes ____ No X
- List the depth to the aquifer
  35 Feet
- List the number of observation and monitoring wells, if any, on the site.
  # Of Wells: 4

Information Provided By:

Name: **David G. Arndal**
Company: **Environmental Resolutions Inc.**
Date: **12/18/98**

City of Pinole

2131 Pear Street • Pinole CA 94564

Office of the City Clerk
Phone (510) 724-8928
Fax (510) 724-9826
hiopu@ci.pinole.ca.us

PUBLIC RECORDS REQUEST

Name: Alvaro Dominguez

Company (if applicable): Partner Engineering and Science

Address/City/Zip: 1017 22nd Ave. #107, Oakland CA 94606

Telephone: 650-996-2876 Email: Alvaro_Dominguez@live.com

Describe records requested. Please be specific. For each record, provide type, date or time period, subject, title, etc.

Pinole Fire Department: Please provide access to copies of hazardous materials document/reports, including installation removal of USTs, on the property at 1500 Fitzgerald Drive, prepared and/or held by the Pinole Fire Department.
I appreciate your help and prompt response to this request. Thank you.

Copies requested?

☐ YES. I understand there is a cost associated with this request (as outlined below) which must be paid prior to receipt of the documents requested.

☒ NO. I just wish to view the records.

Signature: Álvaro Domínguez Date: January 20, 2022

For Official Use

Received by: _____ Date: _____

Approved by: _____ Date: _____

Materials provided via: _____ Date: _____

Copies:	No. of pages: ____ @ 10¢ per page	= $_____
Certification:	$15 (for up to three documents)	= $_____
Copy of DVD/CD:	No. of DVD/CDs: __ @ $2 each	= $_____
Postage if mailed:	Actual Cost	= $_____
Miscellaneous:	_____	= $_____

Total Cost: $_____

Public Records Request :: R000279-012022

Pinole Records Request Center <pinoleca@govqa.us>

Thu 1/20/2022 12:28 PM

To: Alvaro_Dominguez@live.com <Alvaro_Dominguez@live.com>

Dear Alvaro Dominguez:

Your request has been received and is being processed. Your request was received in this office on 1/20/2022 and given the reference number R000279-012022 for tracking purposes.

Records Requested: Building Department Please provide access to building permits, including construction/demolition permits, certificates of occupancy, as well as permits for handling and storing hazardous materials, including petroleum products in above-ground and/or underground storage tanks (AST/UST). Fire Department Please include hazardous materials documents/reports prepared and/or held by the Pinole Fire Department, including AST/UST installation and/or removal reports. Planning Department Please include copies of planned development permits. I appreciate your help and prompt response to this request. Thank you,

Your request will be forwarded to the relevant department(s) to locate the information you seek. You will be contacted about the availability and/or provided with copies of the records in question.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed.

City of Pinole

To monitor the progress or update this request please log into the City of Pinole Public Record Request Portal

Powered by GovQA

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS

SHORT FORM MONITORING PLAN

UNDERGROUND STORAGE OF HAZARDOUS SUBSTANCES

I. FACILITY INFORMATION: SITE I.D. NO.: 14432

Facility Name: K-MART #3531

Owner Name: CDA-TELLEFSEN

Address: 1500 Fitzgerald Dr.
Pinole, CA 94564
Phone: (415) 222-5280

Address: 523 W. 6th St., Ste.707
Los Angeles, CA 90014
Phone: (213) 489-7661

Type of Business: ( ) Gas Station ( ) Other Dept. Store, w/auto service

NOTE: Tanks using the same monitoring alternative may be included in this short form. **Tanks using different alternatives must be on separate forms.**

II. Monitoring Alternative Number (select one):
( )1 ( )2 ( )3 ( )4 ( )5 ( )6 (X)7 ( )8 ( )other

III. Identify tanks using this alternative (by # or product):

1 waste or tank _____ _____ _____

IV. Briefly describe Inventory Control Method used (metering, sticking, etc.):
weekly stick metering

V. Briefly describe Record Keeping Method (or submit example)

See attached form

VI. Tank Testing Dates:

( ) 30 months, then annually (tanks were tested or scheduled to be tested prior to April 15, 1986)
(X) Annually

VII. Is your dispenser equiped with a pump meter? ( )yes (x)no

If yes, can its accuracy be certified? ( )yes ( )no
( )unknown

VIII. Local Geology:

Depth to Groundwater (if known): unknown ft.

Soil Characteristics (if known): unknown

IX. Emergency Contact Person (24 hours):

Name: David Treas Day phone: (415) 223-6597

Address: P.O. Box 57 Nights: (415) 223-6597

Pinole, CA 94564

X. Attach Plot Plan:

Include -

1. Scale and symbols used.
2. Location of tanks and pipes.
3. Identify product in each tank.
4. Property lines, streets and intersections next to property.
5. All surface waters and storm drains within 200 feet.
6. All buildings on the property.
7. Proximity to surface waters and slope of surface drainage.
8. Types of neighborhood uses next to property (e.g., residential, commercial, agricultural, industrial or other shopping center).

I hereby certify that this document is accurate. Amendments to and revisions will be submitted in accordance with California Administrative Code, Title 23 Waters, Chapter 3 Water Resources Control Board, Subchapter 16 Underground Tank Regulations. I am authorized to make this certification by and on behalf of this business.

Signature: Wm. V. Wenger Date: November 4, 1986

Print or
Type Name: William V. Wenger Title: Property Manager

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

( ) 01 NEW PERMIT (X) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION,INDIVIDUAL OR PUBLIC AGENCY)			PUBLIC AGENCY ONLY ( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL
Kmart Corporation			
STREET ADDRESS	CITY	STATE	ZIP
3100 W. Big Beaver Road	Troy	MI	48084

II FACILITY

FACILITY NAME	DEALER/FOREMAN/SUPERVISOR		
Kmart # 3531	J.W. Cook		
STREET ADDRESS	NEAREST CROSS STREET		
1500 Fitzgerald Drive			
CITY	COUNTY	ZIP	
Pinole	Contra Costa	94564	
MAILING ADDRESS	CITY	STATE	ZIP
3100 W. Big Beaver Road	Troy	MI	48084
PHONE W/AREA CODE	TYPE OF BUSINESS		
415/ 222-5280	( ) 01 GASOLINE STATION (X) 02 OTHER Repair Shop		
NUMBER OF CONTAINERS	RURAL AREAS ONLY :	TOWNSHIP	RANGE	SECTION
One (1)				

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE	NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE
J.W. Cook 415/ 222-5280	J.W. Cook 415/ 222-5280

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK ( ) 04 OTHER: CONTAINER NUMBER Not Available

B. MANUFACTURER (IF APPROPRIATE): N/A YEAR MFG: 81 C. YEAR INSTALLED 1981 ( ) UNKNOWN

D. CONTAINER CAPACITY: 1,000 GALLONS ( ) UNKNOWN E. DOES THE CONTAINER STORE: (X) 01 WASTE ( ) 02 PRODUCT

F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (X) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
( ) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL (X) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (X) UNKNOWN

B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (XX) 02 NON-VAULTED ( ) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED (X) 02 SINGLE WALLED ( ) 03 LINED

D. (X) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
( ) 12 UNKNOWN ( ) 13 OTHER:

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
(X) 07 UNLINED ( ) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING (X) 03 CATHODIC PROTECTION ( ) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH (X) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH (X) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

(X) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST ( ) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASS (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (X) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)		PHONE W/AREA CODE
	J.B. Ronan Assistant Controller	313/ 643-1790

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE
CONTACT PERSON	PHONE W/AREA CODE	

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

MSC04-070185

UNDERGROUND TANK PROGRAM #14432

Facility Name: K-Mart Enterprises

Facility Address: 1500 Fitzgerald Dr, Pinole CA 94564

DATE	ACTIVITY	INITIALS
8/25/89	Sent Final letter to Superior Labs Inc Agents	
8-14-89	Report dated 8/30/89 Rec'd with no Plot plan or V.O.C. Results. Hank.	
9/25/89	Sent Letter 9/12/89 requesting complete data including results of V.O.C. analysis Hank	
10-2-89	Spoke w/ Lois Woner Office Mgr of Semco (209) 524-9653 Marilyn Moore is no longer employed there. Lois will check w/ Superior Labs to determine if a VOC sample was ever processed. Lois has a plot plan.	
10/3/89	Talked w/ Patrick Hart of Superior Labs about VOC results - Soil Sample is out of date - Advised him that another sample was needed - he will contact Semco. Hank	
12-4-89	TPH(G) results are adequate - no. on analysis report. Hank	
12-15-89	A3 Status to closed	
11-16-94	File Review	JR

UNDERGROUND TANK PROGRAM

Facility Name:

DATE	ACTIVITY	TIME
7-30-86	Call from Bill Wenger, Gemtel Corp., 523 W. 6th St. #707, Los Angeles 90014 (213) 489-7661. Gemtel is owner, K Mart leases. Sent applic., testers and monitoring ~~plan~~ alternatives. Jan (Computer changed)	
8-15-6	8-4-86 ltr sent to KMart and Gemtel.	
9/18/86 BR	Sent aban to Ron, Petrotek, 925 Commercial St, San Jose 95112	
11/3/86	Bill Wenger called. Tank passed test. He's sending mon plan, plot plan & test data	
4-28-89	Terry @ Semco called asked for Removal Package I explained 4-18-89 letter he will file Removal Permit ASAP. Helen	
8/8/89	REMOVED DONE 1K WASTE OIL TANK, TANK in Good Condition, no sign of holes. SEMCO HAULED TANK TO LIVERMORE SALVAGE FOR SCRAP. Dug 1 soil sample taken by Semco FOR ANALYSES OF TPHG, VOC & TOG by Superior of Lab of S. F. Hank	
8-10-89	Changed Status to A2 HC	

Contra Costa County

HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
4333 WARD STREET, MARTINEZ, CALIFORNIA 94553
(415) 372-2286

PERMIT NO. UG

SITE ID #

PERMIT TO OPERATE UNDERGROUND STORAGE TANK

☒ 5 YEAR ☐ 1 YEAR ☐ AMENDED ☒ TEMPORARY

DATE ISSUED 09/01/86

DATE EXPIRES 08/31/91

I. OWNER

GENTEL CORPORATION

523 W. 6TH ST., SUITE 707
LOS ANGELES, CA 90014

PHONE (213) 489-7661

II. FACILITY

K MART ENTERPRISES
1500 FITZGERALD DR
PINOLE, CA 94564

PHONE (415) 223-2214

III. UNDERGROUND TANKS

CONTAINER ID #	CAPACITY (GAL)	SUBSTANCE CONTAINED	MONITORING ALTERNATIVE	YEAR INSTALLED
1	1000	WASTE OIL	7	1981

RECEIVED
JUL 14 1987
Contra Costa Health
Environmental Health

IV. REINSPECTION DUE

TANK TEST DUE 10/31/88 10/31/89 10/31/90 10/31/91

V. THIS PERMIT REQUIRES COMPLIANCE WITH CALIFORNIA ADMINISTRATIVE CODE, TITLE 23 WATERS, CHAPTER 3 WATER RESOURCES CONTROL BOARD, SUBCHAPTER 16 UNDERGROUND TANK REGULATIONS. SIGNATURE OF OWNER / OPERATOR EVIDENCES KNOWLEDGE OF REQUIREMENTS.

PERMIT APPLICANT

ISSUING AGENT

- CHANGE OF OWNERSHIP MUST BE REPORTED IMMEDIATELY.
- THIS PERMIT MAY BE REVOKED FOR CAUSE.
- PERMIT FEE IS TRANSFERABLE.

HSD/EHD CERTIFIED FILE RECEIPT

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS

UNDERGROUND TANK FACILITY INSPECTION

Facility Name: K-Mart Enterprises **ID:** 14432

Permit Information is Correct ☒ **Incorrect** ☐ **Changes:**

Pipeline Leak Detector Installed: Yes ☐ No ☒; Not Necessary ☑
(Mechanical) (Suction system)

IF NO: DETECTOR(S) MUST BE INSTALLED AND FACILITY REINSPECTED WITHIN 60 DAYS.

Date last tested:_____ Comments: Detectors must be tested annually.

Electronic Tank/Pipe Annular Space Monitor Required: Yes ☐ No ☒

System Check: Pass ☐ Fail ☐ Installed: Yes ☐ No ☑

IF FAIL: SYSTEM MUST BE REPAIRED AND FACILITY REINSPECTED WITHIN 60 DAYS.

Comments: Document compliance with manufacturer's maintenance recommendations.

Electronic In-Tank Gauge System Installed: Yes ☐ No ☒

Functioning: Yes ☐ No ☐; IF NO: Manually gauge tank until gauging device is functioning correctly. REINSPECTION REQUIRED WITHIN 30 DAYS.

Date last checked :_____ Comments:_____

Inventory Control: Electronic ☐ Reconciliation ☐ Gauging ☒

Adequate: ☐ Not Adequate: ☒ Comments:_____

Copy of Revised Record-keeping to be mailed in by: MAR 15 89 (date) No ☐

REINSPECTION DATE:_____ Yes ☐ No ☒

Hazardous Waste Generator? Yes ☒ No ☐; **Licensed?** Yes ☐ No ☐

Type of waste(s): Waste oil

Additional Remarks:_____

Site Rep: Alex Tumparan **Date:** 2/13/89

Title: Mgr. Signature of Inspector

The Contra Costa County Health Services Department (CCCHSD) has inspected this facility as required by California Health & Safety Code Div. 20, Chapter 6.7, Section 25288. A photocopy of this form will be sent to the facility within 5 days. Any questions regarding this inspection may be directed to:

Hazardous Materials/Occupational Health
1111 Ward St., Martinez, CA 94553 Phone: (415) 646-2286

1/618

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS
1111 Ward St., Martinez (415) 646-2286

UNDERGROUND HAZARDOUS SUBSTANCE STORAGE TANK REMOVAL PERMIT AND INFORMATION FORM

FACILITY INFORMATION

Site Name: K MART I.D.# ~~14432~~ 14432

Address: 1500 Fitzgerald Dr
Pinole, CA Phone: 222-5280

Owner Name: K-MART Phone: 818-915-7200

Address: 1184 N. Citrus, Covina, CA 91722

Tank Remover: SCMCO Phone: 209 524-9653
License Type: 449864, A,B,C61

Please schedule an inspection appointment at least 2 days in advance. ALL inspections must be confirmed prior to 9:00 a.m. on the date of removal.

EXPECTED DATE OF REMOVAL (Monday-Friday only): 8-8-89 1:00 PM

TANK INFORMATION:

Number of Tanks to be removed: 1 @$100 PER TANK FEE = $100.00 Pd

Tank(s) registered with State Water Quality Control Board? No UNK. Yes___

Tank(s) to be replaced? No ✓ Yes___

How many new tanks:_____ Have plans been submitted?_____

Tank(s) tested prior to removal? No ✓ Yes___

Tested by:_____ Method:_____

Has there been an indication of leakage? No ✓ Yes___

Explain:_____

Are inventory records available? No ✓ Yes___

Tank(s) used from _____ to 88 for storage of WASTE OIL

Tank(s) capacity: 1000 Tank composition: STEEL

PLEASE COMPLETE BOTH SIDES

Upon removal of tanks, soil or water (or both) samples must be taken by a qualified sampler. Soil samples are required from directly beneath each end of the tank below fill material. **A copy of the lab report, including plot plan and chain of custody must be sent to Contra Costa County Health Services Department (CCCHSD) WITHIN 30 DAYS.**

Samples will be taken by: Senco - Chuck Kipen

Samples will be analyzed by: Superior Analytical Lab - ID 220

A tank pit may be re-filled prior to CCCHSD's receiving sample results, however, it may be necessary to re-excavate for additional sampling or aeration.

All tanks must have all product removed. All gasoline tanks must be rinsed until completely purged and dry ice added. Waste oil tanks must an be hauled as hazardous waste after pumpable material is removed. Copies of manifests for any hazardous waste generated on site during tank removal operations, including tanks disposed of as hazardous waste and rinse water, must be sent to CCCHSD.

Tank hauler: Senco Destination: Modesto, CA

Will tank(s) be scrapped: No___ Yes ✓

PLEASE
NOTE: CCCHSD staff will inspect all tanks prior to removal from the site.

A permit from local Fire Protection District must be obtained prior to tank removal. Other agencies may require additional permits. The 1986 Uniform Fire Code and Local Amendment 79.114 require removal of un-used underground storage tanks.

All associated tank piping must be removed; piping that may cause damage to structures if removed may be capped.

Anyone contracting to install or remove an underground tank must have the appropriate State contractor's license.

PERMIT: Indicate recipient of the approved permit:

Att: Chuck

Name: Senco - C.A. Kipen VP Phone: 209 524-9653

Address: 431 W. Hatch Rd Modesto 95351
Street City Zip Code

* * OFFICE USE ONLY *

Issued by: [illegible] Date: 8/8/89

90-day permit valid until: 11-8-89

Rev. 10/88

file

S E M C O
James C. Bateman Petroleum Services Inc.
431 West Hatch Road, Modesto, CA 95351
General Engineering Building Contractor
License No. 449864 A, B, C-61
(209) 524-9653

TO: Contra Costa County
1111 Ward St.
Martinez, CA

Attention:

DATE: March 19, 1990
JOB NAME: K -MART
JOB LOCATION: 1500 Fitzgerald Dr
Pinole, CA

Gentleman:

WE ARE SENDING YOU THE FOLLOWING ITEMS:

RECEIVED
MAR 22 1990
Contra Costa Health
Environmental Health

____ Laboratory Analysis

____ Chain of Custody

____ Hazardous Waste Manifest

XX Tank Disposition Record

These are transmitted as checked below:

____ For approval — Submit____copies for distribution

____ For your use — Resubmit ____copies for approval

____ As required — Return____corrected prints

____ For review and comment — XX FOR YOUR FILES

Remarks: _____

Copy: K MART Corporation
1184 North Citrus Ave.
Covina, CA 91722

Signed: L. Wower

431 West Hatch Road
Modesto, CA 95351
(209) 524-9653

1741 Leslie Street
San Mateo, Ca 94402
(415) 572-8033

S E M C O
James C. Bateman Petroleum Services Inc.
General Engineering Building Contractor
License No. 449864 A, B, C-61

TANK DISPOSITION RECORD

DATE: August 20, 1989

GENERATOR'S NAME: K MART Corporation

ADDRESS: 1500 Fitzgerald Dr.
Pinole, CA

TANK IDENTIFICATION:

ID NUMBER: 89-415

SIZE: 1,000

CONSTRUCTION: Steel

PRODUCT: Waste Oil

DELIVERED TO: SEMCO
431 W. Hatch Rd.
Modesto, CA 95351

I hereby declare that the information above is fully and accurately described above by proper shipping name and that the tank was in proper condition for transport by highway according to applicable government regulations.

L. Wonen
Signature

Op. Mgr
Title

8/30/89
Date

Contra Costa County
Health Services Department
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH / HAZARDOUS MATERIALS

September 12, 1989

Marilyn Moore
SEMCO
431 West Hatch Road
Modesto, CA 95351

Subject: K MART, 1500 FITZGERALD DR., PINOLE, CA

Dear Ms. Moore:

The report Contra Costa County Health Services Department (CCCHSD) received from you concerning the waste oil tank removal at the above site is not acceptable.

There are no results for the VOC I requested and there is no plot plan.

The plot plan must show the dimensions of the tank pit, location in relation to streets, and/or buildings as well as each sample location and depth.

We are returning your report. Please send a completed report to this office as soon as possible. Please note our new address.

Should there be any questions concerning CCCHSD policies or procedures, please call me or Bruce Benike at (415) 646-2286.

Sincerely,

Hank Bunczewski
Hazardous Materials Specialist

Enclosure
HB:no
kmart.hb

4333 Pacheco Boulevard • Martinez, California 94553 • (415) 646-2286

SEMCO
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
431 W. Hatch Rd. Modesto, Calif. 95351
General & Engineering Contractors
(800) 533-9293

#51095

SEMCO - OIL HEAT ENG. DIVISION
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
1806 Leslie St. San Mateo, Calif. 94402
General & Engineering Contractors
(800) 533-9293

CHAIN OF CUSTODY RECORD

PROJECT NAME: K-MART
1500 Fitzgerald Dr, Pinole

SAMPLERS (signature): [signature]
Semco - UP

Station Number	Date	Time	Comp.	Grab	Station Location	Number of Containers	Analysis Required: TPH-D	Analysis Required: ~~BTEX~~	Analysis Required: VOC-TOG					REMARKS
1VGB4"	8/8	12:10		✓	V.E. 8'4"	1	✓		✓					Waste Oil

Relinquished by(signature):	Date / Time	Received by (signature):	Relinquished by(signature):	Date / Time	Received by (signature):
[signature] Company or Agency: Semco	8/8 1:50 pm	Company or Agency:	Company or Agency:		Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received by (signature): Company or Agency:	Relinquished by: Company or Agency:	Date / Time	Received by (signature): Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received for Laboratory by: (signature) [signature]	Date / Time 8/8 1:51 pm	Remarks/Shipping Information: Normal	

AUG 17 RECD

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 51095
CLIENT: SEMCO
CLIENT JOB NO.: K-MART

DATE RECEIVED: 08/08/89
DATE REPORTED: 08/15/89

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range	Concentration (mg/kg) Diesel Range
1	VE.8'4"	ND<10	ND<10

mg/kg - parts per million (ppm)

Minimum Detection Limit for Gasoline and Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 5%
RPD Diesel = <1%
MS/MSD Average Recovery =82%: Duplicate RPD = 2%

Richard Srna, Ph.D.
Laboratory Director

AUG 17 RECD

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 51095
CLIENT: SEMCO
CLIENT JOB NO.: K-MART

DATE RECEIVED: 08/08/89
DATE REPORTED: 08/15/89

ANALYSIS FOR TOTAL OIL AND GREASE
by EPA Method 503E

LAB #	Sample Identification	Concentration (mg/kg) Total oil & grease
1	VE.8'4"	78

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 20mg/kg

Richard Srna, Ph.D.
Laboratory Director

AUG 17 RECD

SUPERIOR ANALYTICAL LABORATORY, INC.

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1	VE.8'4"	78

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 20mg/kg

Richard Srna, Ph.D.
Laboratory Director

SEMCO
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
431 W. Hatch Rd. Modesto, Calif. 95351
General & Engineering Contractors
(800) 533-8293

#51095

SEMCO - OIL HEAT ENG. DIVISION
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
1806 Leslie St. San Mateo, Calif. 94402
General & Engineering Contractors
(800) 533-8293

CHAIN OF CUSTODY RECORD

PROJECT NAME: K-MART
1500 Fitzgerald Dr, Pinole

SAMPLERS (signature): [signature]
Semco - UP

Station Number	Date	Time	Comp.	Grab	Station Location	Number of Containers	Analysis Required: TPH-D	Analysis Required: ~~BTEX~~	Analysis Required: VOC-TOG					REMARKS
1 VEB4	8/8	12:01		✓	U.E. 8'4"	1	✓		✓					Waste Oil

Relinquished by(signature):	Date / Time	Received by (signature):	Relinquished by(signature):	Date / Time	Received by (signature):
[signature] Company or Agency: Semco	8/8 1:50 pm	Company or Agency:	Company or Agency:		Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received by (signature): Company or Agency:	Relinquished by: Company or Agency:	Date / Time	Received by (signature): Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received for Laboratory by: (signature) [signature]	Date / Time 8/8 1:50 pm	Remarks/Shipping Information: Normal	

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000018619 | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Knart 1500 Fitzgerald Pinole CA

4. Generator's Phone: 415 222-5208

A. State Manifest Document Number: 87555864

B. State Generator's ID: CAC000018619

5. Transporter 1 Company Name: Allied Petroleum

6. US EPA ID Number: CAD981067512 8

C. State Transporter's ID: 005134

D. Transporter's Phone: (209) 576-0500

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Refineries Service 13331 Hwy 33 Patterson CA

10. US EPA ID Number: CAD083168728

G. State Facility's ID: CAD083168728

H. Facility's Phone: 800-874-4444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste water & Rinsate NA 9189	1	TT	40	G	State 223 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: 90% Water & Rinsate 10% oil

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: LUISLIONER | Signature: [illegible] | Month Day Year: 08 01 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Colin Kelley | Signature: Colin Kelley | Month Day Year: 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR

TRANSPORTER

FACILITY

HS 8022 A (1/87)
PA 8700—22
Rev. 9-86) Previous editions are obsolete.

YELLOW: GENERATOR RETAINS

INSTRUCTIONS ON THE BACK

431 W. Hatch Road
Modesto, California 95351

Telephone
209-524-96

SEMCO

General Engineering Building Contractor
License No. 449864 A, B, C-61
Environmental Services Division
Tank Destruction Certification

This is to certify that SEMCO, Inc., has in accordance with applicable local, state, and federal rules and regulations decontaminated and properly disposed of the following storage tank(s):

Excavation Location:

K MART #3531
1500 Fitzgerald Drive
Pinole, California

Tank Identification:

Identification Number	14932
Size	1000 gallon
Construction	Steel
Product	Waste Oil

Transporter:

SEMCO
431 West Hatch Road
Modesto, CA 95351

Decontamination Process: Decontaminated on site using "Triple Rinse Process". Residual to be disposed of as Class 1 hazardous waste. Clean tank delivered to SEMCO to be reduced to prepared scrap 18" x 36" for recycling via Livermore Auto Salvage.

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a program designed to assure that qualified personnel properly decontaminated and disposed of the above noted tank(s). Based on my inquiry of the person or persons who managed the program, or those persons directly responsible for completion of the program assignments, the above information is true, accurate and complete to the best of my knowledge and belief.

Signature	Title	Date
[signature]	Secretary	8/30/89

Contra Costa County
Health Services Department
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH / HAZARDOUS MATERIALS

file

March 20, 1990

Mr. Mike Payne
Western Reg. Field Office
c/o K Mart 4114
5400 Auburn Blvd.
Sacramento, CA 95841

Dear Mr. Payne:

In response to your request for verification by Contra Costa County Health Services Department (CCCHSD) of compliance with State and County regulations concerning the removal of underground waste oil storage tank at K Mart, 1500 Fitzgerald Dr., Pinole, a file review has been completed.

CCCHSD records indicate that the required permits were obtained and the removal witnessed by CCCHSD. A soil sample was analyzed and the results provided to CCCHSD. The levels of total petroleum hydrocarbons as gas (TPH-G) or diesel (TPH-D) were below the minimum detection limit. A concentration of 78 ppm (parts per million) of total oil and grease was found in the sample.

CCCHSD is satisfied that this very minor contamination will not significantly impact the future use of the tank pit area. Based on present information, CCCHSD will not require additional investigation at this site.

Although CCCHSD does not speak for the Regional Water Quality Control Board, based on past experience it is unlikely that any additional concerns will be raised.

Sincerely,

Jan Lammer

Jan Lammer, Asst. Manager
Underground Tank Program

JL:no

cc: SEMCO

4333 Pacheco Boulevard • Martinez, California 94553 • (415) 646-2286

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
KMART INTERNATIONAL TIM FERRELL 3100 W BIG BEAVER RD TORY MI 48084-3163	KMART KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☐ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2005

Expiration Date 06/30/2006

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
DIRECTOR

Sue Loyd

HAZARDOUS MATERIALS PROGRAMS
4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

CONTRA COSTA HEALTH SERVICES

INSPECTION COVER SHEET

Facility Name: KMart #3531

Address: 1500 Fitzgerald Drive

City: Pinole State: CA Zip: 94564

EPA I.D. Number: CAL000018619 Site I.D. No.: 714432

Contact: Ms Ramirez Title: Manager

Phone Number: (925) 510 222-5200 Inspection Date(s): 09/08/05

Program(s): (check all that apply)

- ✓ Hazardous Materials Release Response Plan
- X Hazardous Waste Generator
- __ Underground Storage Tank (UST)
- __ Aboveground Petroleum Storage Tank (AST)
- __ Tiered Permitting
- __ Green Business
- __ Clean Water
- __ Cal/ARP

REPRESENTATIVES PRESENT:

Name	Title	Organization
Ms Ramirez	Manager	KMART
Sue Loyd	HMS	CCHS

Additional Comments:

EPA ID No. - OK
Please submit Contingency plan + train employees and document training

This report may identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC) or the California Code of Regulations (CCR). The Violations may be described in more detail on an attached inspection sheet.

Failure to correct observed violations within the scheduled period provided may result in Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) citing you for continuing and/or additional violations. Issuance of this Inspection Report does not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted.

Ileri Ramirez 9-08-05 Sue A Loyd 9/08/05

Consent to inspect given by — Date — Hazardous Materials Specialist — Date

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

WILLIAM B. WALKER, M. D.
HEALTH SERVICES DIRECTOR
LEWIS G. PASCALLI, JR., ESQ.
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

HAZARDOUS WASTE GENERATOR INSPECTION

Generator Name: Kmart #3531 Site I.D. Number 714432

Program Status: ☑Active ☐Inactive ☐RCRA-SQG ☐RCRA-LQG ☐Non-RCRA ☐None

Inspection Type: ☑Routine ☐Follow-up ☐Complaint ☐Joint ☐Multi-media ☐Referred to: _____

VIOLATIONS* (Title 22 California Code of Regulations/Chapter 6.5 California Health and Safety Code)

General Requirements

__	Treatment, Storage, Disposal	66262.10
__	Hazardous Waste Determination	66262.11
__	EPA Identification Number OK	66262.12
__	Accumulation Time	66262.34
__	Use of Hazardous Waste Manifests	66262.23

Record-Keeping & Reporting

__	Disposal Documentation on File OK	66262.40
__	Biennial Report on File/Submittal	66262.40-41
__	Waste Analysis on File	66262.40
__	Exception Reporting	66262.42

Hazardous Waste Handler Training

__	Employee Training Program	66265.16
__	Training Documentation	66265.16
✓	Contingency Plan	66265.52-56

Facility Operation

__	Maintenance & Operation	66265.31
__	Required Equipment	66265.32
__	Equipment Maintenance & Testing	66265.33
__	Communications or Alarm System	66265.34
__	Required Aisle Space	66265.35
__	Emergency Response Agencies	66265.37

Use & Management of Containers

__	Hazardous Waste Labels	66262.34
__	Container Condition	66265.171
__	Container Compatibility	66265.172
__	Container Management	66265.173
__	Weekly Area Inspections	66265.174
__	Buffer zone for Special Wastes	66265.176
__	Separation of Incompatibles	66265.177

Hazardous Waste Storage Tanks

__	Secondary Containment	66265.193
__	Spill Prevention	66265.194
__	Documented Daily Inspections	66265.195
__	Leaking or Unfit Tanks Systems	66265.196
__	Ignitable or Reactive Waste	66265.198

Miscellaneous

__	Source Reductions (SB 14)
__	On-site Recycling Notifications
__	On-site Recycling Activities

Other: _____

*See back of page for regulatory citations

☐Green Business Program candidate

Waste Code	Hazardous Waste Stream	Annual Quantity (Tons)
	Used lead acid batteries	≈ 20-30 batteries/yr
D001/331	Waste Aerosol	≈ 100 pds/yr
331	Paint	≈ 300 - 350 gals/yr
D001/002 1220/	Waste oxidizing solution (hypo)	≈ 20-30 gals/yr

Total Annual Tonnage of Hazardous Waste Generated _____ ☐**No Violations Observed**

Violations/Corrections

Please complete contingency plan, train employees and submit doc. of training.

CCHS will send labels

Violations must be corrected by: Dec 1, 2005 **Violation Summary:** ☐Class I ☐Class II ☐Minor

Site Representative's Signature OR. Date 9-8-05 Specialist's Signature [signature] Date 09/08/05

Total Time for Review and Inspection (in 15 minute increments): 1.0 Page 2 of 2

EMERGENCY RESPONSE AND EVACUATION PLAN

Business Name: Kmart #3531 **Date:** March 1, 2007

Business Site Address: 1500 Fitzgerald Drive
Pinole, CA 94564

Emergency Contacts:

Kirk Hayes
Store Manager
Ph: 510-222-5280
24hr Ph: 406-945-4265

Oliver Perkins
Loss Prevention Manager
Ph: 510-222-5280
24hr Ph: 510-290-8939

Reporting and Notification/Alarm Procedures:

If outside notification is required for an incident, the Manager on Duty or Corporate Personnel will notify applicable federal, state and local agencies.

In the event of a fire or other emergency requiring off-site emergency-response, the designated emergency contacts will do the following:

1. Call 911 in order to notify the local fire department and emergency medical response personnel;
2. Notify on site response personnel;
3. Activate local alarm systems;
4. Notify Contra Costa Health Services/HazMat at 925-646-1112;
5. Notify State Officer of Emergency Services at 800-852-7550;
6. If the spill involves hazardous waste, notify CalEPA-DTSC;
7. Submit a written follow-up spill notification to State OES and Notify Contra Costa County Health Services/HazMat;

Note: This facility does not have a designated medical emergency response facility or an on-site emergency response team. The designated emergency coordinator or the manager on duty is responsible for the above.

Emergency Response Coordinator with Emergency Response Responsibilities

1. Store Manager: Performs the role of emergency response coordinator (ERC). Responsible for implementing the emergency action plan and maintaining safety equipment at the facility. Notify emergency response associates and reporting agencies. Assist in evacuation supervision (if needed). Conduct annual training drill and prepare written assessment.

2. Assistant Manager: Perform the role of emergency response coordinator in the absence of ERC as Alternate ERC.

3. Mike Olsen, Manager of Environmental Compliance: Take calls and respond to emergencies in the absence of either ERC or alternates.

Prevention:

This facility stores and uses chemicals including, but not limited to, lead acid batteries (corrosives), combustible liquids (motor oils and ATF), and products that are irritants or that present other health hazards. Incompatible chemicals are separated by 20 feet or by one-hour separation, and are stored in their original containers. Batteries are stored in a designated rack or on a shrink-wrapped pallet in a well-ventilated room away from drains and sources of electricity. Flammable materials not for retail sale are stored in a flammables cabinet. Used materials are stored in properly labeled drums, and are also kept away from drains and sources of electricity. Department personnel visually inspect products on a daily basis.

Mitigation:

Employee response to a leak, spill, fire, explosion or airborne release is illustrated in the facility's Emergency Action Plan. Trained employees manage small spills (spills that can be safely handled by employees in the immediate vicinity) of identified chemicals as long as there are no threats to human life or the environment. The immediate spill area will be evacuated of nonessential personnel and customers. The appropriate Material Safety Data Sheets for spilled materials are consulted for proper guidance in handling the substance(s) and a spill kit is obtained. A spill boom and absorbents are used to immediately block the flow of liquids from entering any nearby drains. Proper PPE is donned before handling a spilled product. In the event of a large spill, fire or release that threatens human health and/or the environment, the local fire department and/or environmental health department will be contacted. In the event of a small fire, if it is safe to do so, a fire extinguisher may be used to extinguish the fire.

Abatement:

The proper disposal, spill and leak procedures for each hazardous material at the facility are detailed in the facility's Environmental Operations Manual. Trained employees will clean up spilled hazardous materials and place used absorbents in DOT approved containers. These containers will be properly labeled as directed in the Environmental Operations Manual and stored according to local, state and federal regulations. Disposal containers must be kept in good condition and stored away from high traffic areas, electrical hazards, drains and fire exits. All hazardous waste materials will be disposed of by outside contractors at RCRA approved facilities.

Procedures for Reporting Spills and Other Emergencies

All spills are to be reported to the ERC. Only trained employees will be responsible to clean up spills. Potential spills may arise from pool and cleaning products, paints and lead acid batteries. The procedures are as follows:

1. Response to Spill or Release of Sulfuric Acid (EHS):
    a. Activate your emergency action plan
    b. Call 911 for police, fire or ambulance services, if necessary
    c. Follow spill and leak procedures for batteries (See appendix B of the Risk Management Plan which contains the spill management procedures including in the Environmental Operations Manual)
    d. Immediately call 916-445-9338 to Notify California Office of Spill Prevention and Response (OSPR) if there are spills greater than the Threshold Reporting Quantity (TRQ) of 1000 pounds. Written notification is also required within a week of the spill to: OSPR, 1700 K Street, Sacramento, CA 95814

e. Comply with SARA Section 304 reporting if the quantity releases is greater than the Reportable Quantity of 1000 pounds for sulfuric acid by contacting the National Response Center at 800-424-8802.
f. Identify the following information:
    i. Facility name, address, phone, and contact person(s)
    ii. Substance released, form and quantity involved
    iii. Whether or not any medium (water, soil, or air) has been contaminated
    iv. Date and Time spill or release occurred and duration
g. Summarize whatever precautions should be taken with respect to:
    i. Health and physical hazards
    ii. Necessary medical attention
    iii. Emergency evacuation

Earthquakes:

Areas that require immediate attention following an earthquake include the following: any items that could fall, spill, break or move during an earthquake as well as hazardous materials and hazardous wastes in storage areas, utility lines and mains.

Employee Training:

Employees receive a training guide that covers the handling of hazardous materials, environmental management procedures and risks and hazards in the workplace. New employees are trained on the proper storage and handling methods of hazardous materials during their orientation period. They are provided information which describes the hazards that may occur in the workplace. All employees are trained in the isolation of spills and how to prevent spilled materials from entering storm and sewer systems. In addition, employees are trained on the following topics: use of absorbent materials and neutralizers to control and clean up spills and leaks; proper labeling, marking, disposal and recording of hazardous wastes; fire prevention and response; response to medical emergencies. Employees attend annual refresher courses and store management conducts safety tailgate meetings on an as needed basis.

Training of Associates with Response Duties:

The ERC (store manager) and other members of the management team with emergency response responsibilities are trained in the facility's Fire Protection Systems and other emergency systems and with the implementation of the facility's Emergency Action Plan (EAP) including the procedures to be followed during emergencies. The ERC and alternates also review and complete the training using the Sears Holdings Corporation Environmental Training, including proper procedures for agency notification, emergency response and evacuation notification.

In addition, the ERC is responsible for training all Orchard Supply Hardware associates employed at the facility in the Environmental Operations Training Program, initially during orientation and on an as needed basis, thereafter.

Employee Training Documentation:

Training records, including a description of the training and training dates and employee signatures, are retained for at least three years. All training documentation is available for review.

Emergency Drills

An emergency response drill is conducted at the facility annually to evaluate the effectiveness of the emergency response plan. After the drill, a meeting will be held with all associates to discuss ways to improve responses to emergencies, review recommendations and determine if any response associates require additional training. A written assessment of the drill will be prepared and kept on the premises for a three year period and be made available for inspection.

Evacuation Notification:

Depending on the severity of an emergency incident, a partial or complete evacuation will be ordered by the emergency coordinator. The emergency coordinator may use the communication system available to initiate evacuation procedures. Employees are instructed to escort customers through the nearest emergency exit and meet at the designated staging area in the store parking lot. Evacuation information is posted throughout the facility, including in employee break rooms. In the event that outside notification is required, the emergency coordinator will telephone the fire department and other applicable agencies.

In the emergency coordinator's absence, the designated manager will be responsible for his/her duties. If outside notification has occurred, re-entry will only be permitted once the all clear is given from the responding agency. If no outside notification has occurred, re-entry will be permitted when the manager on duty that it is safe to do so.

Material Safety Data Sheet/ Emergency Response Plan Location:

This emergency response plan, employee training records and MSDSs are maintained in the manager's office.

Written Procedures for Use, Inspection, Testing, and Maintenance of Emergency Response Equipment

1. Fire Extinguishers: Inspected and checked as per manufacturer's instructions. Annual servicing and recharging will be performed by a service firm and recorded on a tag attached to each extinguisher. The extinguishers are replaced immediately after use or when pressure loss is noted.

2. Spill Kit: The ERC has the responsibility for ordering the Hazardous Material Spill Kit and storing in an easily accessible location. The spill kit is to be used for clean-up of small spills (less than one gallon or four batteries).

Safety Equipment List:

The following equipment is available on site:

EMERGENCY EQUIPMENT INVENTORY TABLE			
Equipment Category	**Equipment Type**	**Location ***	**Description****
Personal Protective Equipment, Safety Equipment and First Aid Equipment	☐ Cartridge Respirators		
	☐ Chemical Monitoring Equipment *(describe)*		
	☒ Chemical Protective Aprons/Coats	Processing Table/LP Office/Spill Kit	
	☐ Chemical Protective Boots		
	☒ Chemical Protective Gloves	Processing Table/LP Office/Spill Kit	
	☐ Chemical Protective Suits *(describe)*		
	☒ Face Shields	Spill Kit	
	☒ First Aid Kits/Stations *(describe)*	Throughout	Basic first aid supplies
	☐ Hard Hats		
	☐ Plumbed Eye Wash Stations		
	☒ Portable Eye Wash Kits *(i.e. bottle type)*	Universal Precaution Clean-up Kit	
	☐ Respirator Cartridges *(describe)*		
	☒ Safety Glasses/Splash Goggles	Processing Table/LP Office/Spill Kit	
	☐ Safety Showers		
	☒ Self-Contained Breathing Apparatuses (SCBA)	Universal Precaution Clean-up Kit	
	☐ Other *(describe)*		
Fire Extinguishing Systems	☒ Automatic Fire Sprinkler Systems	Throughout	
	☒ Fire Alarm Boxes/Stations	Throughout	
	☒ Fire Extinguisher Systems *(describe)*	Throughout	ABC Rated
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☒ Absorbents (describe)	Spill Kit	
	☐ Berms/Dikes (describe)		
	☐ Decontamination Equipment (describe)		
	☐ Emergency Tanks (describe)		
	☐ Exhaust Hoods		
	☐ Gas Cylinders Leak Repair Kits (describe)		
	☒ Neutralizers (describe)	Spill Kit	Acid Neutralizer
	☐ Overpack Drums		
	☐ Sumps (describe)		
	☐ Other (describe)		
Communications and Alarm Systems	☐ Chemical Alarms (describe)		
	☒ Intercoms/ PA Systems	Throughout	
	☒ Portable Radios	Throughout	
	☒ Telephones	Throughout	
	☐ Underground Tank Leak Detection Monitors		
	☒ Other (describe)		Alarm System
Additional Equipment (Use Additional Pages if Needed.)	Universal Precaution Clean-up Kit		
	Blood Born Pathogen Kit		

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
SEARS HOLDINGS CORPORATION MICHAEL OLSEN 3333 BEVERLY RD, B5-337A HOFFMAN ESTATES IL 60179	SEARS HOLDINGS CORPORATION KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2007

Expiration Date 06/30/2008

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility: KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR
RANDALL L. SAWYER
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

INSPECTION COVER SHEET

Facility Name K-Mart
Address 1500 Fitzgerald Dr
City Pinole State CA Zip 94564
EPA I.D. Number CAL000018619 Site I.D. No. 714432
Contact Oliver Perkins Title Loss Prevention Coach
Phone Number 510 222-5280 Inspection Date(s) 8-13-07

Program(s): (check all that apply)

- __Hazardous Materials Release Response Plan
- X Hazardous Waste Generator
- __Underground Storage Tank (UST)
- __Aboveground Petroleum Storage Tank (AST)
- __Tiered Permitting
- __Green Business
- __Clean Water
- __Cal/ARP

REPRESENTATIVES PRESENT:

Name	Title	Organization
Dena Hutchin	Haz Mat Spec	CCHS
Oliver Perkins	Loss Prevention	K-Mart

Additional Comments:

Receipts/manifests O.K.
Emergency plan O.K.
Storage & labelling O.K.
Training records O.K.

This report may identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC) or the California Code of Regulations (CCR). The Violations may be described in more detail on an attached inspection sheet.

Failure to correct observed violations within the scheduled period provided may result in Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) citing you for continuing and/or additional violations. Issuance of this Inspection Report does not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted.

Consent to inspect given by 8-13-07 Date Hazardous Materials Specialist Dena Hutchin 8-13-07 Date

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

WILLIAM B. WALKER, M. D.
HEALTH SERVICES DIRECTOR

LEWIS G. PASCALLI, JR., ESQ.
DIRECTOR

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CONTRA COSTA
HEALTH SERVICES

HAZARDOUS WASTE GENERATOR INSPECTION

Generator Name: K-Mart Site I.D. Number 774432

Program Status: ☒Active ☐Inactive ☐RCRA-SQG ☐RCRA-LQG ☐Non-RCRA ☐None

Inspection Type: ☒Routine ☐Follow-up ☐Complaint ☐Joint ☐Multi-media ☐Referred to:_____

VIOLATIONS* (Title 22 California Code of Regulations/Chapter 6.5 California Health and Safety Code)

General Requirements

__ Treatment, Storage, Disposal	66262.10
__ Hazardous Waste Determination	66262.11
__ EPA Identification Number	66262.12
__ Accumulation Time	66262.34
__ Use of Hazardous Waste Manifests	66262.23

Record-Keeping & Reporting

__ Disposal Documentation on File	66262.40
__ Biennial Report on File/Submittal	66262.40-41
__ Waste Analysis on File	66262.40
__ Exception Reporting	66262.42

Hazardous Waste Handler Training

__ Employee Training Program	66265.16
__ Training Documentation	66265.16
__ **Contingency Plan**	66265.52-56

Facility Operation

__ Maintenance & Operation	66265.31
__ Required Equipment	66265.32
__ Equipment Maintenance & Testing	66265.33
__ Communications or Alarm System	66265.34
__ Required Aisle Space	66265.35
__ Emergency Response Agencies	66265.37

Use & Management of Containers

__ Hazardous Waste Labels	66262.34
__ Container Condition	66265.171
__ Container Compatibility	66265.172
__ Container Management	66265.173
__ Weekly Area Inspections	66265.174
__ Buffer zone for Special Wastes	66265.176
__ Separation of Incompatibles	66265.177

Hazardous Waste Storage Tanks

__ Secondary Containment	66265.193
__ Spill Prevention	66265.194
__ Documented Daily Inspections	66265.195
__ Leaking or Unfit Tanks Systems	66265.196
__ Ignitable or Reactive Waste	66265.198

Miscellaneous

__ Source Reductions (SB 14)
__ On-site Recycling Notifications
__ On-site Recycling Activities

Other:

*See back of page for regulatory citations

☐Green Business Program candidate

Waste Code	Hazardous Waste Stream	Annual Quantity (Tons)	
D011/331	Waste aerosols	120 lbs .06	
291	Latex paint	375 gall	1.8 T
D011/123	Waste oxidizing liquid	20 gall .07	
191	lead acid batteries	60 units	.06 T

Total Annual Tonnage of Hazardous Waste Generated < 5T ☒**No Violations Observed**

Violations/Corrections

Violations must be corrected by:_____ **Violation Summary:** ☐Class I ☐Class II ☐Minor

Site Representative's Signature [signature] Date 8-13-07 Specialist's Signature DM Date 8-13-07

Total Time for Review and Inspection (in 15 minute increments) 1:15

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
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94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

INSPECTION COVER SHEET

Facility Name K Mart #3531

Address 1500 Fitzgerald Dr.

City Pinole State CA. Zip 94564

EPA I.D. Number CAL 000018619 Site I.D. No. 744432

Contact Oliver Perkins Title Loss Prevention Mgr.

Phone Number 510-222-5280 Inspection Date(s) 12/4/07

Program(s): (check all that apply)

- x Hazardous Materials Release Response Plan
- __ Hazardous Waste Generator
- __ Underground Storage Tank (UST)
- __ Aboveground Petroleum Storage Tank (AST)
- __ Tiered Permitting
- __ Green Business
- __ Clean Water
- __ Cal/ARP

REPRESENTATIVES PRESENT:

Name	Title	Organization
Charles Rupert	Loss Prevention Agent	K Mart
Elaine Glin	Haz Mat Spec.	Contra Costa

Additional Comments: K Mart is a department store

This report may identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC) or the California Code of Regulations (CCR). The Violations may be described in more detail on an attached inspection sheet.

Failure to correct observed violations within the scheduled period provided may result in Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) citing you for continuing and/or additional violations. Issuance of this Inspection Report does not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted.

Charles Rupert 12/4/07 Elaine C Glin 12/4/07

Consent to inspect given by Date Hazardous Materials Specialist Date

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

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HEALTH SERVICES

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Fax (925) 646-2073

ENTERED

HAZARDOUS MATERIALS RELEASE RESPONSE & INVENTORY PROGRAM
BUSINESS PLAN VALIDATION & SITE INSPECTION REPORT

Facility Name: K Mart # 3531 Site I.D. Number 714432

Program Status: ✓ Active ☐ Inactive ☐ Referred to _____

Inspection Type: ✓ Routine ☐ Follow-up ☐ Complaint ☐ Joint ☐ Multi-media

General Business Plan Requirements
(CCR Sect. 2729.1 & HSC Sect. 25503.5)
__Business Plan Submitted
__Business Plan by Due Date

Owner/Operator Identification Page
(CCR Sect. 2729.2(a)(1) & HSC Sect. 25503.3(a))
__Reporting Period
__Business Information
__Owner Information
__Emergency Contact Information
__Extremely Hazardous Materials
__Number of Employees
__Total Pounds of Hazardous Materials

Chemical Description Page
(CCR Sect. 2729.2(a)(2) & HSC Sect. 25503.3(a) & 25509)
__Chemical Location
__Fire Code Classes
__Type
__Physical State
__Federal Hazard Categories
__State Waste Code
__Days on Site
__Largest Container
__Units
__Maximum Daily Amount
__Annual Waste Amount
__Storage Container
__Storage Pressure
__Storage Temperature
__Hazardous Components
__Conversion to Pounds
__All Hazardous Materials, greater than threshold quantities, reported

Site Layout & Facility Diagrams
(CCR Sect. 2729.2(a)(3) & HSC Sect. 25517.5(a); Sect. 25518)
__Site Layout & Facility Diagram Submitted
__Details Complete and Accurate

Emergency Response & Evacuation Plan
(CCR Sect. 2731 & HSC Sect. 25504(b))
__Emergency Response/Evacuation Plan
__Notification & Alarm Procedures Submitted
__Evacuation Procedures
__Emergency Procedures
__Emergency Equipment
__Emergency Response Procedures
__Other

Employee Training Requirements
(CCR Sect. 2732 & HSC Sect. 25504(c))
__Training Plan Submitted
__Training Conducted & Documented
__Other

Enforcement Action (HSC Sect. 25514-25516.2)
☐ Informal ☐ Administrative ☐ Civil ☐ Criminal

Violations/Corrections

Per Dena Hutchin's inspection 8/24/07
all records & plans okay

Violations Must Be Corrected By: _____ ✓ **No Violations Observed**

Site Representative's Signature [signature] Date 12/4/07 Specialist's Signature [signature] Date 12/4/07

Total Time for Review and Inspection (in 15-minute increments): 4 units Page 2 of 2

RECEIVED

FEB 18 2008

Contra Costa Health
Hazardous Materials

unidocs
The Uniform Documents Project

Hazardous Materials Online Inventory Project

Business Owner/Operator Report

After viewing the facility information below, click "Back to Site Menu" to view more reports.

I. IDENTIFICATION

FACILITY ID#: 07-000-714432

BEGINNING DATE (MM/DD/YYYY):

ENDING DATE (MM/DD/YYYY): 02/11/2009

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As): KMART #3531

BUSINESS PHONE (###) ###-####: (510) 222-5280

BUSINESS SITE ADDRESS: 1500 FITZGERALD DR

CITY: PINOLE

STATE: CA

ZIP CODE: 94564

DUN & BRADSTREET:

SIC CODE (4 digit #):

COUNTY: Contra Costa

BUSINESS OPERATOR NAME: KMART

BUSINESS OPERATOR PHONE: (###) ###-####: (510) 222-5280

II. BUSINESS OWNER

OWNER NAME: KMART Corporation

OWNER PHONE: (###) ###-####: 847-286-7222

OWNER MAILING ADDRESS: 3333 Beverly Rd, B5-339A

CITY: Hoffman ESATES

STATE: IL

ZIP CODE: 60179

III. ENVIRONMENTAL CONTACT

CONTACT NAME: MICHAEL OLSEN

CONTACT PHONE: (###) ###-####: 847-286-7222

CONTACT MAILING ADDRESS: 3333 Beverly Rd, B5-339A

CITY: Hoffman ESATES

STATE: IL

ZIP CODE: 60179

75 Employees

646

IV. EMERGENCY CONTACTS

-PRIMARY-

NAME:

-SECONDARY-

NAME:

3/18/08 ee

KIRK HAYES	OLIVER PERKINS
TITLE:	TITLE:
STORE MANAGER	LOSS PREVENTION MANAGER
BUSINESS PHONE: (###) ###-####	BUSINESS PHONE: (###) ###-####
(510) 222-5280	(510) 222-5280
24-HOUR PHONE: (###) ###-####	24-HOUR PHONE: (###) ###-####
406-945-4265	510-290-8939
PAGER#:	PAGER#:

ADDITIONAL LOCALLY COLLECTED INFORMATION:

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penaltyof law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

DATE: (MM/DD/YYYY)	NAME OF DOCUMENT PREPARER:
02/17/2008	NATHAN YKEMA, AGENT OF S
NAME OF SIGNER:	TITLE OF SIGNER:
MICHAEL OLSEN	MANAGER, ENV. COMPLIANCE

Back to Site Menu

UPCF(1/99 revised)

OES FORM 2730 (1/99)

Back to Site Menu

home | what's new | members agencies | documents and services | search unidocs | contact us
related links | training and meetings

For comments or questions regarding the HMIS project, contact the Online Database Administrator.

hosted by City of Palo Alto

Business Name:	KMART #3531	**Owner:**	KMART
Address:	1500 FITZGERALD DR	**City:**	PINOLE
County:	Contra Costa	**Phone Number:**	(510) 222-5280
Location:	All Locations	**Hazard Type:**	Non-Waste and Waste

Hazardous Material Inventory

Chemical:	Amount:
LIQUEFIED PETROLEUM GAS	99 LBS
USED LEAD ACID BATTERIES	547 LBS
WASTE AEROSOL	~~54 GAL~~
WASTE CORROSIVES - ACIDIC	~~18 GAL~~
WASTE CORROSIVES - BASIC	~~18 GAL~~
WASTE FLAMMABLE LIQUIDS	~~36 GAL~~
WASTE OXIDIZERS	~~18 GAL~~
WASTE TOXICS	~~18 GAL~~

646

Back to Site Menu

Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Date: 03 / 05 / 08

Business Name: (Same as Facility Name or DBA) KMART #3531

Type of Report on This Page: ☐ Add; ☐ Delete; ☐ Revise

Page 1 of 2 (One page per building or area)

Chemical Location: (Building/Storage Area) HAZWASTE STORAGE AREA/605 ROOM

EPCRA Confidential Location? ☐ Yes; ☒ No

Trade Secret Information? ☐ Yes; ☒ No

Facility ID # (Agency Use Only) 0 7 - 0 0 0 - 7 1 4 4 3 2

1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only) Chemical Name	% Wt.	EHS	CAS No.	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
5.1	Map: NONE Grid: NONE	WASTE OXIDIZERS CAS No.: MIXTURE ☐ EHS	WASTE OXIDIZERS	100	☐	MIXTURE	☐ pure ☒ mixture ☐ solid ☒ liquid ☐ gas	18 Curies: (If radioactive)	2 Days On Site: 365	18 Storage Container:* O	☒ gallons ☐ pounds ☐ cu. feet ☐ tons	☒ ambient ☐ > amb. ☐ < amb.	☒ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☒ reactive ☐ pressure release ☒ acute health ☒ chronic health ☐ radioactive
6.1	Map: NONE Grid: NONE	WASTE TOXICS CAS No.: MIXTURE ☐ EHS	WASTE TOXICS	100	☐	MIXTURE	☐ pure ☒ mixture ☐ solid ☒ liquid ☐ gas	18 Curies: (If radioactive)	2 Days On Site: 365	18 Storage Container:* O	☒ gallons ☐ pounds ☐ cu. feet ☐ tons	☒ ambient ☐ > amb. ☐ < amb.	☒ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☒ reactive ☐ pressure release ☒ acute health ☒ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive

* Storage Codes:

Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

If EPCRA, sign below:

Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Date: 03 / 05 / 08

Business Name: (Same as Facility Name or DBA) KMART #3531

Type of Report on This Page: ☐ Add; ☐ Delete; ☐ Revise

Page 2 **of** 2 (One page per building or area)

Chemical Location: (Building/Storage Area) OUTSIDE OF STORE, BACK OF GARDEN CENTER

EPCRA Confidential Location? ☐ Yes; ☒ No
Trade Secret Information? ☐ Yes; ☒ No

Facility ID # (Agency Use Only) 0 7 - 0 0 0 - 7 1 4 4 3 2

1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only) Chemical Name	% Wt.	EHS	CAS No.	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
2.1	Map: NONE Grid: NONE	LIQUEFIED PETROLEUM GAS CAS No.: 74-98-6 ☐ EHS	LIQUEFIED PETROLEUM GAS	100	☐	74-98-6	☒ pure ☐ mixture ☐ solid ☐ liquid ☒ gas	99 Curies: (If radioactive)	99 Days On Site: 365	33 Storage Container:* L	☐ gallons ☒ pounds ☐ cu. feet ☐ tons	☐ ambient ☒ > amb. ☐ < amb.	☒ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☒ fire ☐ reactive ☒ pressure release ☒ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ pure ☐ mixture ☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*	☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive

* Storage Type Codes:

Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

If EPCRA, sign below:

WILLIAM B. WALLER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS
4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

RECEIVED
MAR 26 2008
Contra Costa Health
Hazardous Materials

2008 CUPA PACKET

HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY/SITE ID: KMART #3531/714432
1500 FITZGERALD DR
PINOLE 94564

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE SIGNIFICANTLY CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by March 3, 2008. **Forms postmarked after March 3, 2008 will be assessed a 50% late filling fee.**
• Do not send payments at this time. • Retain a copy for your records.

1. Determine how much hazardous waste your business generated during the 2007 calendar year.

Total Tonnage of Hazardous Waste Generated: 0

2007 HAZARDOUS WASTE GENERATOR CATEGORIES

Quantity of Hazardous Waste Generated	Fee Category #
Less than 5 tons	1
5 or more tons, but less than 25 tons	2
25 or more tons, but less than 50 tons	3
50 or more tons, but less than 250 tons	4
250 or more tons, but less than 500 tons	5
500 or more tons, but less than 1,000 tons	6
1,000 or more tons, but less than 2,000 tons	7
2,000 or more tons	8
Used Oil Only - See instructions on reverse	10

1. Using the table above, determine the Fee Category for your business. Categories will be verified during inspections. Discrepancies may result in additional fees and penalties.

Category: 1

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] Date: 3/26/08
Print Name: Michael Olsen
Title: Mgr. Environmental Compliance Phone # (847) 286-7222

Forms postmarked after March 3, 2008 will be assessed a 50% late filling fee.
• Do not send payments at this time. • Retain a copy for your records.

CONTRA COSTA
HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
SEARS HOLDINGS CORPORATION MICHAEL OLSEN 3333 BEVERLY RD, B5-337A HOFFMAN ESTATES IL 60179	KIRK HAYES KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2008

Expiration Date 06/30/2009

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

CONTRA COSTA
HEALTH SERVICES

RECEIVED
MAR 03 2009
Contra Costa Health
Hazardous Materials

2009 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY/SITE ID: KMART #3531 / 714432
1500 FITZGERALD DR,
PINOLE

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE SIGNIFICANTLY CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by March 2, 2009. **Forms postmarked after March 2, 2009 will be assessed a 50% late filling fee.**
• Do not send payments at this time. • Retain a copy for your records.

Determine how much hazardous waste your business generated during the **2008** calendar year.

Total Tonnage of Hazardous Waste Generated: 0.78 TONS

2008 HAZARDOUS WASTE GENERATOR CATEGORIES

Quantity of Hazardous Waste Generated
Less than 5 tons
5 or more tons, but less than 12 tons
12 or more tons, but less than 25 tons
25 or more tons, but less than 50 tons
50 or more tons, but less than 250 tons
250 or more tons, but less than 500 tons
500 or more tons, but less than 1,000 tons
1,000 or more tons, but less than 2,000 tons
2,000 or more tons
Used Oil Only - See instructions on reverse

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] Date: 2/23/09
Print Name: MICHAEL OLSEN
Title: DIRECTOR, ENVIRONMENTAL AFFAIRS Phone # (847) 286-7222

Forms postmarked after March 2, 2009 will be assessed a 50% late filling fee.
• Do not send payments at this time. • Retain a copy for your records.

UNIFIED PROGRAM CONSOLIDATED FORM

FACILITY INFORMATION

BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION

FACILITY ID# 0 7 0 0 0 7 1 4 4 3 2 1	BEGINNING DATE 100: 02/20/2009	ENDING DATE 101: 02/20/2010	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: KMART #3531		BUSINESS PHONE 102: 5102225280	
BUSINESS SITE ADDRESS 103: 1500 FITZGERALD DR			
CITY 104: PINOLE	CA	ZIP CODE 105: 94564	
DUN & BRADSTREET 106: 131978533		SIC CODE (4 digit #) 107: 452990	
COUNTY 108: Contra Costa			
BUSINESS OPERATOR NAME 109: Kmart Corporation		BUSINESS OPERATOR PHONE 110: 5102225280	

RECEIVED MAR 03 2009 Contra Costa Health Hazardous Materials

II. BUSINESS OWNER

OWNER NAME 111: KMART CORPORATION		OWNER PHONE 112: 8472867222
OWNER MAILING ADDRESS 113: 3333 BEVERLY RD, B5-362A		
CITY 114: HOFFMAN ESTATES	STATE 115: IL	ZIP CODE 116: 60179

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117: MICHAEL OLSEN		CONTACT PHONE 118: 847-286-7222
CONTACT MAILING ADDRESS 119: 3333 Beverly Rd, B5-362A		
CITY 120: Hoffman Estates	STATE 121: IL	ZIP CODE 122: 60179

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME 123: TONY GUTIERREZ	NAME 128: OLIVER PERKINS
TITLE 124: STORE MANAGER	TITLE 129: LOSS PREVENTION MANAGER
BUSINESS PHONE 125: (510) 222-5280	BUSINESS PHONE 130: (510) 222-5280
24-HOUR PHONE 126: (510) 776-4762	24-HOUR PHONE 131: (510) 290-8939
PAGER # 127:	PAGER # 132:

ADDITIONAL LOCALLY COLLECTED INFORMATION: 133

4/05-Reactivated site (closed 1989) per submittal by corp office. LL 9/06-Updated mail address info. LL

# of EMPLOYEES: 89

2,688 RW

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134: 02/20/2009	NAME OF DOCUMENT PREPARER 135: Sindy Panagiotopoulos, AGENT OF SEARS
NAME OF SIGNER (print) 136: MICHAEL OLSEN	TITLE OF SIGNER 137: Director, Environmental Affairs	

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 1 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
USED LEAD ACID BATTERIES

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
USED LEAD ACID BATTERIES

EHS* ☐ Yes ☒ No 208

CAS# 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
CORROSIVE, TOXIC

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 36.5 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
109	547	6500	792

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☒ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	34 (226)	LEAD (227)	☐ Yes ☒ No (228)	7439-92-1 (229)
2	31 (230)	LEAD DIOXIDE (231)	☐ Yes ☒ No (232)	1309-60-0 (233)
3	9 (234)	SULFURIC ACID 0.1-9% (235)	☐ Yes ☒ No (236)	7664-93-9 (237)
4	(238)	(239)	☐ Yes ☐ No (240)	(241)
5	(242)	(243)	☐ Yes ☐ No (244)	(245)

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

547

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 2 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
WASTE CORROSIVES - BASIC

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
WASTE CORROSIVES - BASIC

EHS* ☐ Yes ☒ No 208

CAS# 209
NA

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
CORROSIVE

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 20 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
10	20	60	123

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 3 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
TOOL ROOM, RECEIVING

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
LIQUEFIED PETROLEUM GAS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
LIQUEFIED PETROLEUM GAS

EHS* ☐ Yes ☒ No 208

CAS# 209
74-98-6

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214

LARGEST CONTAINER 33 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217
99

MAXIMUM DAILY AMOUNT 218
99

ANNUAL WASTE AMOUNT 219

STATE WASTE CODE 220

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☒ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 4 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
WASTE CORROSIVES - ACIDIC

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
WASTE CORROSIVES - ACIDIC

EHS* ☐ Yes ☒ No 208

CAS# 209
NA

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
CORROSIVE

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 20 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
10	20	60	135

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 5 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
WASTE OXIDIZERS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
WASTE OXIDIZERS

EHS* ☐ Yes ☒ No 208

CAS# 209
NA

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
OXIDIZING, CLASS 1, OXIDIZING, CLASS 2, OXIDIZING, CLASS 3, OXIDIZING, CLASS 4

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 65 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
33	65	195	212

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

520

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 6 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
Layaway Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
HELIUM

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
HELIUM

EHS* ☐ Yes ☒ No 208

CAS# 209
7440-59-7

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
COMPRESSED GAS

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 0 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214

LARGEST CONTAINER 244 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217
200

MAXIMUM DAILY AMOUNT 218
244

ANNUAL WASTE AMOUNT 219

STATE WASTE CODE 220

UNITS* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☒ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

5

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 7 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
WASTE AEROSOL

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
WASTE AEROSOLS

EHS* ☐ Yes ☒ No 208

CAS# 209
NA

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 65 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
33	65	195	612

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☒ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

548

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 8 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
WASTE FLAMMABLE LIQUIDS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
WASTE FLAMMABLE LIQUIDS

EHS* ☐ Yes ☒ No 208

CAS# 209
NA

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
FLAMMABLE LIQUID, CLASS I-A, FLAMMABLE LIQUID, CLASS I-B, FLAMMABLE LIQUID, CLASS I-C

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 65 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
33	65	195	214

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

548

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 9 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
LIQUEFIED PETROLEUM GAS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
PROPANE

EHS* ☐ Yes ☒ No 208

CAS# 209
74-98-6

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☐ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214

LARGEST CONTAINER **20** 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
10	**20**	**60**	

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds

DAYS ON SITE: **365** 222

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☒ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page 10 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
KMART #3531

CHEMICAL LOCATION 201
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☐ NO

FACILITY ID # 0 7 0 0 0 7 1 4 4 3 2 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
WASTE TOXICS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
WASTE TOXICS

EHS* ☐ Yes ☒ No 208

CAS# 209
NA

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
TOXIC

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 65 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
33	65	195	133

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

520

If EPCRA, Please Sign Here

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
KMART CORPORATION MICHAEL OLSEN 3333 BEVERLY RD, B5-362A HOFFMAN ESTATES IL 60179	KMART CORPORATION KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2009

Expiration Date 06/30/2010

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

07-000-714432, KMART #3531, 2/22/2010 4:47:21 PM

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FEB 2 4 2010

Contra Costa Health
Hazardous Materials

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION

FACILITY ID # (Agency Use Only) 1.	07-000-714432	BEGINNING DATE 100	2010/02/22
ENDING DATE 101	2011/03/01		
BUSINESS NAME (Same as Facility Name or DBA – Doing Business As) 3.	KMART #3531	BUSINESS PHONE 102	5102225280
BUSINESS SITE ADDRESS 103	1500 FITZGERALD DR	BUSINESS FAX 102a	
BUSINESS SITE CITY 104	PINOLE	CA	ZIP CODE 105 94564
COUNTY 106	Contra Costa		
DUN & BRADSTREET 106	131978533	PRIMARY SIC 107	5311
PRIMARY NAICS 107a	45211		
BUSINESS MAILING ADDRESS 108a	1500 FITZGERALD DR		
BUSINESS MAILING CITY 108b		STATE 108c	CA
ZIP CODE 108d	94564		
BUSINESS OPERATOR NAME 109	Kmart Corporation	BUSINESS OPERATOR PHONE 110	5102225280

II. BUSINESS OWNER

OWNER NAME 111	KMART CORPORATION	OWNER PHONE 112	8472867222
OWNER MAILING ADDRESS 113	3333 BEVERLY RD, B5-362A		
OWNER MAILING CITY 114	HOFFMAN ESTATES	STATE 115	IL
ZIP CODE 116	60179		

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117	Christopher Lipman	CONTACT PHONE 118	847-286-0037
CONTACT MAILING ADDRESS 119	3333 Beverly Rd, B5-348A	CONTACT EMAIL 119a	3333 Beverly Rd, B5-348A
CONTACT MAILING CITY 120	Hoffman Estates	STATE 121	IL
ZIP CODE 122	60179		

IV. EMERGENCY CONTACTS

-PRIMARY-		-SECONDARY-	
NAME 123	TONY GUTIERREZ	NAME 128	OLIVER PERKINS
TITLE 124	STORE MANAGER	TITLE 129	LOSS PREVENTION MANAGER
BUSINESS PHONE 125	(510) 222-5280	BUSINESS PHONE 130	(510) 222-5280
24-HOUR PHONE 126	(510) 776-4762	24-HOUR PHONE 131	(510) 290-8939
PAGER # 127		PAGER # 132	

ADDITIONAL LOCALLY COLLECTED INFORMATION 133

Billing Address: Same as database (see next page) 101 el

~~Property Owner~~ Name Christopher Lipman Phone No.:

Employees-100

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE		DATE 134	2010/02/22
NAME OF DOCUMENT PREPARER 135	Christopher Lipman		
NAME OF SIGNER (print) 136	Christopher Lipman	TITLE OF SIGNER 137	Environmental Specialist

Number of employees at business site

100

Billing Contact Person

Christopher Lipman

Billing Address Line 1

3333 Beverly Road

Billing Address 2

B5-348A

Billing City

Hoffman Estates

Billing State

IL

Billing Zip Code

60179

07-000-714432, KMART #3531, 2/22/2010 4:50:12 PM

Date: 02/22/10

Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Business Name: (Same as Facility Name or DBA) KMART #3531

Type of Report on This Page: ☐ Add; ☐ Delete; ☐ Revise

Page 1 of 2 (One page per building or area)

Chemical Location: (Building/Storage Area) Layaway Area

EPCRA Confidential Location? ☐ Yes; ☒ No

Trade Secret Information? ☐ Yes; ☒ No

Facility ID # (Agency Use Only) 07-000-714432

1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only) Chemical Name	% Wt.	EHS	CAS No.	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
2.2	MAP: GRID:	HELIUM			☐		☒ pure ☐ mixture	244	200	244	☐ gallons ☐ pounds ☒ cu feet ☐ tons	☐ ambient ☒ > amb ☐ < amb	☒ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☒ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: 7440-59-7			☐ EHS		☐ solid ☐ liquid ☒ gas	Curies: (If radioactive)	Days On Site: 365	Storage Container:* L				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.:			☐ EHS		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.:			☐ EHS		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.:			☐ EHS		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.:			☐ EHS		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.:			☐ EHS		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				

* Storage Type Codes: A Aboveground Tank; B Belowground Tank; C Tank Inside Building; D Steel Drum; E Plastic/Non-metallic Drum; F Can; G Carboy; H Silo; I Fiber Drum; J Bag; K Box; L Cylinder; M Glass Bottle or Jug; N Plastic Bottle or Jug; O Tote Bin; P Tank Wagon; Q Rail Car; R Other

If EPCRA, sign below:

07-000-714432, KMART #3531, 2/22/2010 4:50:12 PM

Date: 02/22/10

Non-Waste Hazardous Materials Inventory Statement

For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Business Name: (Same as Facility Name or DBA) KMART #3531

Type of Report on This Page: ☐ Add; ☐ Delete; ☐ Revise

Page 2 of 2 (One page per building or area)

Chemical Location: (Building/Storage Area) TOOL ROOM, RECEIVING

EPCRA Confidential Location? ☐ Yes; ☒ No

Trade Secret Information? ☐ Yes; ☒ No

Facility ID # (Agency Use Only) 07-0004432

1. Haz. Class	2. Map and Grid or Location Code	3. Common Name	4. Hazardous Components (For mixtures only) Chemical Name	% Wt.	EHS	CAS No.	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
2.1	MAP: GRID:	LIQUEFIED PETROLEUM GAS	PROPANE	100	☐	74-98-6	☒ pure ☐ mixture	99	99	33	☐ gallons ☒ pounds ☐ cu. feet ☐ tons	☐ ambient ☒ > amb ☐ < amb	☒ ambient ☐ > amb ☐ < amb ☐ cryogenic	☒ fire ☐ reactive ☒ pressure release ☒ acute health ☐ chronic health ☐ radioactive
			BUTANE	3	☐	78-76-2								
			PROPYLENE	10	☐	115-07-1								
		CAS No.: 74-98-6 ☐ EHS	ETHANE 99	5	☐	74-84-0	☐ solid ☐ liquid ☒ gas	Curies: (If radioactive)	Days On Site: 365	Storage Container:* L				
					☐									
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb. ☐ < amb.	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb. ☐ < amb. ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				
	MAP: GRID:				☐		☐ pure ☐ mixture				☐ gallons ☐ pounds ☐ cu. feet ☐ tons	☐ ambient ☐ > amb ☐ < amb	☐ ambient ☐ > amb ☐ < amb ☐ cryogenic	☐ fire ☐ reactive ☐ pressure release ☐ acute health ☐ chronic health ☐ radioactive
		CAS No.: ☐ EHS			☐		☐ solid ☐ liquid ☐ gas	Curies: (If radioactive)	Days On Site:	Storage Container:*				

* Storage Type Codes:

Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

If EPCRA, sign below:

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # *(Agency Use Only)* 0 7 -- 0 0 0 – 7 1 4 4 3 2 1.

EPA ID # (Hazardous Waste Only) CAL000018619 2.

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* 3.
KMART #3531

BUSINESS SITE ADDRESS 1500 FITZGERALD DR 103.

BUSINESS SITE CITY PINOLE 104. CA ZIP CODE 94564 105.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility...		If Yes, please complete these pages of the UPCF...
A. HAZARDOUS MATERIALS Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. CalARP REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	☐ YES ☒ NO 4a.	Coordinate with your local agency responsible for CalARP.
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES ☒ NO 5.	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
D. ABOVE GROUND PETROLEUM STORAGE Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers?	☐ YES ☒ NO 8.	No form required to CUPAs
E. HAZARDOUS WASTE Generate hazardous waste?	☒ YES ☐ NO 9.	EPA ID NUMBER – provide at top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?	☐ YES ☒ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste onsite?	☐ YES ☒ NO 11.	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit)
Perform treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12.	CERTIFICATION OF FINANCIAL ASSURANCE
Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13.	REMOTE WASTE CONSOLIDATION SITE ANNUAL NOTIFICATION
Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☒ NO 14.	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more then 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste?	☐ YES ☒ NO 14a.	Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
Serve as a Household Hazardous Waste (HHW) Collection site?	☐ YES ☒ NO 14b.	See CUPA for required forms.

F. LOCAL REQUIREMENTS (You may also be required to provide additional information by your CUPA or local agency.) 15.

employees: 89

CONTRA COSTA
HEALTH SERVICES

RECEIVED
FEB 25 2010
Contra Costa Health
Hazardous Materials

2010 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY/SITE ID: SITE #714432
KMART #3531
1500 FITZGERALD DR
PINOLE

EPA ID # CAL000018619

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by March 1, 2010. **Forms postmarked after March 1, 2010 will be assessed a 50% late filing fee.**
• Do not send payments at this time. • Retain a copy for your records.

This form helps the Hazardous Materials Program establish your hazardous waste fees each year. Fees are based on two criteria: tonnage of waste generated, less exempt wastes, and CUPA inspection requirements.

Determine how much hazardous waste your business generated during the 2009 calendar year.

1a	**Total** Tonnage of Hazardous Waste Generated	1.23
1b	Tons of **recycled** used oil	—
1c	Tons of **recycled** used filters (oil and/or fuel)	—
1d	Hazardous waste tonnage subject to fees *(Subtract lines 1b and 1c from line 1a)*	1.23

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: Christopher D. Lipman
Date: 01/30/2010
Print Name: Christopher Lipman
Title: Environmental Specialist
Phone # (847) 286-0037

CONTRA COSTA HEALTH SERVICES-HAZARDOUS MATERIALS PROGRAMS
4585 PACHECO BLVD., SUITE 100
MARTINEZ, CA 94553
(925) 335-3200

Please contact the Hazardous Materials Programs if you have questions.

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4585 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
CHRISTOPHER LIPMAN	KMART CORPORATION
SEARS HOLDINGS CORP	KMART #3531
3333 BEVERLY RD, B5-348A	1500 FITZGERALD DR
HOFFMAN ESTATES IL 60179	PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2010

Expiration Date 06/30/2011

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

CONTRA COSTA HEALTH SERVICES

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Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Materials Business Plan Inspection/Compliance Checklist

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	12 AUG 2010

INSPECTION TYPE: (Routine) Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor Cl I = Major Cl II = Medium / Repeat Minor

California Code of Regulations, Title 19, Division 2, Chapter 4, §2620 et al; Title 27, Div 1, Subdiv. 2, Chap. 1, Part II
California Health and Safety Code, Division 20, Chapter 6.95, §25404, §25500-25520

Viol Code	Authority	Requirement	Viol Class	Violation Due Date/ Violation Corrected
BP01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.		
BP02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.		
BP03	19CCR 2729.4	Maximum quantity of all hazardous materials stored on site in reportable quantities are listed in the HMBP.		
BP04	19CCR 2729.5	Original signature on inventory forms for acutely hazardous materials ≥ Threshold Planning Quantities.		
BP05	19CCR 2729.2	Adequate submission / completion of site map.		
BP06	H&SC 25504	Adequate submission / completion / retention of written Emergency Response Plan.		
BP07	27CCR 15210 & H&SC 25404	Full and timely payment of the HMBP program annual fee.		
BP08	H&SC 25503.5	HMBP is maintained on-site or is accessible.		
BP09	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.		
BP10	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.		
BP11	19CCR 2731(c) & H&SC 25503(e)(1)	Procedures in place to mitigate, prevent or abate hazards to persons, property or the environment from a release or threatened release of hazardous materials. **See back for Best Management Practices (BMP).**		
BP12	—	Other:		

See back for Best Management Practices (BMP)

Observation:

FACILITY HAS PROPANE AND HELIUM. FACILITY HAS EMERGENCY RESPONSE PLAN. TRAINING IS CONDUCTED MONTHLY.

Total Time for Review and Inspection (in 15 minute increments): 4

☒ No Violations Observed

Facility Rep Initials TS | CC Hazmat Initials OL | Date 12 AUG 2010

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INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 FITZGERALD DRIVE PINOLE	12 AUG 2010
Contact Name: LINDA JABER Contact Telephone: 510-222-5280	EPA ID: CAL000018619	SITE ID: 714432

Program(s): (check all that apply)

☒ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☒ Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☒ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization
TONY GUTIERREZ	MANAGER	KMART
LINDA JABER	MANAGER	KMART
DEVRA LEWIS	HMS	CCHSHMP

Facility Description/Comments: SCHEDULED INSPECTION. FACILITY GENERATES HAZARDOUS WASTE FROM BROKEN CONTAINERS AND HAS HELIUM FOR BALLOONS AND PROPANE FOR FORKLIFTS. WENT OVER INSPECTION WITH MR GUTIERREZ AND MS. JABAR

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep: TONY GUTIERREZ Consent to inspect given by	Facility Rep Signature: [signature]	Date: 8/12/10
CC Hazmat Rep: DEVRA LEWIS	CC Hazmat Signature: Devra Lewis	Date: 12 AUG 2010

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Hazardous Waste Inspection/Compliance Checklist (page 1 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	12 AUG 2010

INSPECTION TYPE	VIOLATION CLASSIFICATIONS	EPA ID
(Routine) Follow-Up / Other	M = Minor Cl I = Major Cl II = Medium / Repeat Minor	CAL000018619

California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 10, §66001 et al
California Health and Safety Code (HSC), Division 20, Chapter 6.5, §25100 et al
Code of Federal Regulations (CFR) Title 40, Chapter 1, Part 260 et al

Disposal Documents Reviewed For Year:	HW Gen Rpt Form On File?	Total Annual Tonnage of All Hazardous Waste Generated:
2009	☒ Yes ☐ No	1.22 T

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
331, D001, D035, D039	AGED SURPLUS, WASTE AEROSOL	0.7 T
141, D001, D035, D039, D006	WASTE OXIDIZER	0.2 T
214, D001	WASTE FLAM LIQUID	0.2 T
791, D002	PH < 2	0.01 T
123	WASTE CORROSIVE	0.1 T
291	LATEX WASTE	0.01 T
	Additional Wastes on Continuation Sheet? ☐ Yes ☒ No	

Generator Status:
☐ RCRA-LQG > 1,000 kg/month ☐ CA-LQG > 1,000 kg/month ☐ CA-SQG > 100 to < 1,000 kg/month ☒ CA-CESQG < 100 kg/month ☐ Episodic LQG

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 66262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days)		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC	M	12 SEPT 10
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(iii)	CCR 22 66265.16	Employee training program adequate.		
HW20	—	CCR 22 66265.16	Training Documentation		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

ENTERED

Facility Rep Initials	CC Hazmat Rep Initials	Date
RS	DL	12 AUG 2010

CONTRA COSTA HEALTH SERVICES

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Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	12 AUG 2010

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available.		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33(c) Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space		
HW31	—	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.34, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.20 (c) Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations: CLEAN HAZARDOUS WASTE STORAGE AREA. EXCELLENT LABELING. DOCUMENTATION OF WEEKLY INSPECTIONS.
HW13- FACILITY MANIFESTS DO NOT HAVE DESIGNATED FACILITY OPERATOR SIGNATURES. THOSE COPIES MAY BE GOING TO KMART HQ IN ILLINOIS. FACILITY MUST GET COPIES FROM HQ AND PROVIDE TO DTSC IN AN EXCEPTION REPORT
PROVIDE DOCUMENTATION OF FOLLOW UP TO CCHS HMP BY 12 SEPT 2010

Total Time for Review and Inspection (in 15 minute increments): 6 ☐ No Violations Observed

Facility Rep Initials [illegible] CC Hazmat Rep Initials DK Date 12 AUG 2010

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Hazardous Waste Inspection/Compliance Checklist *(page 1 of 2)*

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	Aug 18, 2010

INSPECTION TYPE	VIOLATION CLASSIFICATIONS	EPA ID
Routine (Follow-Up) Other	M = Minor Cl I = Major Cl II = Medium / Repeat Minor	CAL000018619

Disposal Documents Reviewed For Year:	HW Gen Rpt Form On File? ☐ Yes ☐ No	Total Annual Tonnage of All Hazardous Waste Generated:

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
	Additional Wastes on Continuation Sheet? ☐ Yes ☐ No	

Generator Status:
☐ RCRA-LQG > 1,000 kg/month ☐ CA-LQG > 1,000 kg/month ☐ CA-SQG > 100 to < 1,000 kg/month ☐ CA-CESQG < 100 kg/month ☐ Episodic LQG

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 66262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days)		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC		CORRECTED 18 Aug 2010
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(ii)	CCR 22 66265.16	Employee training program adequate.		
HW20	—	CCR 22 66265.16	Training Documentation		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency.		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

Facility Rep Initials	CC Hazmat Rep Initials	Date
Mailed	DL	18 Aug 2010

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART	714432	18 AUG 2010

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available.		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33(c) Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space		
HW31	—	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.34, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.20 (c) Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations: ON 17 AUGUST 2010, KMART FAXED COPIES OF MANIFESTS THAT SHOWS THEY RECEIVED SIGNED COPIES FROM THE DESIGNATED FACILITY. THIS CORRECTS THE VIOLATION CITED DURING THE 12 AUGUST 2010 INSPECTION.

CCHSHMP STAFF WILL CONTINUE TO WORK WITH DTSC TO DETERMINE WHY DTSC'S HAZARDOUS WASTE TRACKING SYSTEM DOES NOT REFLECT THE LAST 2 YEARS OF MANIFESTS SENT IN TO DTSC.

Total Time for Review and Inspection (in 15 minute increments): 4 | ☒ No Violations Observed

Facility Rep Initials Mailed | CC Hazmat Rep Initials DL | Date 18 AUG 2010

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 FITZGERALD DRIVE PINOLE	18 AUG 2010
Contact Name LINDA JABER	EPA ID	SITE ID
Contact Telephone 510-222-5280	CAL000018619	714432

Program(s): (check all that apply)

☒ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☒ Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☒ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization

Facility Description/Comments: FOLLOW UP TO 12 AUG 2010 INSPECTION

ENTERED

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep _____ Consent to inspect given by	Facility Rep Signature Mailed	Date
CC Hazmat Rep DEVRA LEWIS	CC Hazmat Signature Devra Lewis	Date 18 AUG 2010

Fax Cover Letter

Date: 8-17-2010

Send to: **Devra Lewis** **Hazardous Materials Specialist**	From: Oliver Perkins Loss Prevention Manager
Attention: **Krista Fryer**	Date: 8-17-2010
Office Location: Contra Costa County Health Services 4585 Pacheco Blvd., Suite 100 Martinez, CA 94553	Office Location: #3531 Kmart Pinole, CA.
(925) 335-3222 direct **(925) 646-2073 fax**	Office: 510-222-5280 Cell: 510-290-8939 Email Address: perkonthemove1@aol.com lp3531@searshc.com

Re: Waste Manifest

Pages faxed are (4) including the cover letter.

Please email me to confirm that you have received this fax.

PLEASE ENTER MANIFESTED WEIGHTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000018619
2. Page 1 of: 2
3. Emergency Response Phone: (800)326-1221
4. Manifest Tracking Number: 00037330MAS

5. Generator's Name and Mailing Address: SEARS HOLD INCORP. / DAWN JESS, 3333 BEVERLY ROAD, HOFFMAN ESTATES, IL 60179, (510)222-5280

Generator's Site Address (if different than mailing address): KMART # 3331 / MC & C CLERK, 1500 FITZGERALD DR., PINOLE, CA 94564, GEN: 117571

Generator's Phone:

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC / SIGNAL HILL — U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: HERITAGE ENVIRONMENTAL SERVICES LLC, 284 E STOREY RD, COOLIDGE, AZ 85228, (520)723-4167 — U.S. EPA ID Number: AZD081705402

Facility's Phone:

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN1950, WASTE AEROSOLS, 2.1, (D001 D039), ERG#126 (ICE EXAMP)	1	CF	80	P	331 D039	D001	D035
X	2. ~~RQ, UN1978, WASTE PROPANE, 2.1, (D001), ERG#115~~ LG. 5.26.10					~~331~~	~~D001~~	
	3. ~~UN1013, CARBON DIOXIDE, 2.2, ERG#120~~ LG 5.26.10					~~331~~		
X	4. RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, PGII, (PAINT), (D001), ERG#128 (ICE EXAMP)	1	CF	45	P	D001	214	

14. Special Handing Instructions and Additional Information

1.W1_0450266_LDR ~~2.W8_0429806_LDR~~ 3.W13_050583A 4.W6_0450290_LDR

1xcyB A2 — 1xcyB F2

[1379335]BT

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: THERESA TEAGUE — Signature: [signature] — Month 5 Day 26 Year 10

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: LUIS GUZAN — Signature: [signature] — Month 5 Day 26 Year 10

Transporter 2 Printed/Typed Name: ~~THERESA TEAGUE~~ L.G. 5.26.10 — Signature: [signature] L.G. 5.26.10 — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	~~H141~~	~~H141~~	H141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kenneth Payne — Signature: [signature] — Month 8 Day 17 Year 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

[redacted]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAL000018619	2	(800)326-1221	00030374OMAS

5. Generator's Name and Mailing Address
SEARS HOLD INCORP. / DAWN JESS
3333 BEVERLY ROAD
HOFFMAN ESTATES, IL 60179
(510)222-5280
Generator's Phone:

Generator's Site Address (if different than mailing address)
KMART # 3531 / HC & C CLERK
1500 FITZGERALD DR.
PINOLE, CA 94564
GEN: 117571

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC / SIGNAL HILL — U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES LLC
284 E STOREY RD
COOLIDGE, AZ 85228
Facility's Phone: (520)723-4167
U.S. EPA ID Number: AZD081705402

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
*	1. ~~RQ,UN1950,WASTE AEROSOLS,2.1,(D001 D039),~~ ERG#126 SR					~~331 D001 D039~~ ~~D039~~
*	2. ~~RQ,UN1978,WASTE PROPANE,2.1,(D001),ERG#115~~ SR					~~331 D001~~
	3. ~~UN1013,CARBON DIOXIDE,2.2,ERG#120~~ SR					~~331~~
*	4. ~~RQ,UN1993,WASTE FLAMMABLE LIQUIDS, N.O.S.,~~ ~~3,PGII,(PAINT),(D001),ERG#128~~ SR	~~1~~	~~CF~~			~~D001~~

14. Special Handling Instructions and Additional Information
~~1.WI_0450266_LDR 2.WB_0439806_LDR 3.WI3_0505838~~ 4.WS_0450290_LDR

[135454818]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CRISTINA GANTAN — Signature: [signature] — Month 3 Day 14 Year 10

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STEPHEN RICHMAN — Signature: [signature] — Month 3 Day 14 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
~~H141~~	~~H141~~	~~H141~~	~~H141~~

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kenneth Payne — Signature: [signature] — Month 05 Day 19 Year 10

EPA Form 8700-22 (Rev. 3-06) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE [illegible]

[redacted]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000018619
2. Page 1 of 2
3. Emergency Response Phone: (800) 326-1221
4. Manifest Tracking Number: 000284377WAS

5. Generator's Name and Mailing Address: [redacted] / DAWN JESS
3333 BEVERLY ROAD
HOFFMAN ESTATES, IL 60179
(510)222-5280

Generator's Site Address (if different than mailing address): CLERK
1500 FITZGERALD DR.
PINOLE, CA 94564
GEN: 117571

Generator's Phone:

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC / SIGNAL HILL — U.S. EPA ID Number: TND058484114

7. Transporter 2 Company Name: Triad Transport — U.S. EPA ID Number: OKD981588791

8. Designated Facility Name and Site Address: HERITAGE ENVIRONMENTAL SERVICES LLC
284 E STOREY RD
COOLIDGE, AZ 85228
(520)723-4167

U.S. EPA ID Number: AZD081705402

Facility's Phone:

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN1950, WASTE AEROSOLS, 2.1, (D001 D039), ERG#126 1x55DF 42P	1	DF	42	P	331 D039	D001	D039
X	2. RQ, UN1978, WASTE PROPANE, 2.1, (D001), ERG#115 1x30DF 1CY 10P	1	CY	10	P	331	D001	
X	3. RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, PGII, (PAINT), (D001), ERG#128 1x20CF .38P	1	CF	38	P	D001	214	
X	4. RQ, UN1479, WASTE OXIDIZING SOLID, N.O.S., 5.1, PGII, (TRICHLORO-S-TRIAZINETRIONE), (D001), ERG#140 1x30DF 31P	~~1~~ 12	~~DF~~ 10	~~32~~ 09	~~P~~ P	141	D001	

14. Special Handling Instructions and Additional Information: 1. WI_0450288_LDR 2. WS_0439506_LDR 3. WS_0450290_LDR 4. WI6_0520146_LDR

[133214636]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator/Offeror's Printed/Typed Name: CRISTINA GANTAN — Signature: [signature] — Month 12 Day 10 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: Tombard — Month 12 Day 10 Year 09

Transporter 2 Printed/Typed Name: Steve Corneto — Signature: [signature] — Month 12 Day 21 Year 09

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H141	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David D. Wendling — Signature: [signature] — Month 01 Day 04 Year 10

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESIGNATED STATE (if required)

07-000-714432, KMART #3531, 3/30/2011 8:10:44 AM

RECEIVED

APR 01 2011

Contra Costa Health
Hazardous Materials

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION

BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION

FACILITY ID # (Agency Use Only) 1 — 714432		BEGINNING DATE 100 2011/04/01	ENDING DATE 101 2012/03/31
BUSINESS NAME (Same as Facility Name or DBA – Doing Business As) 3 KMART #3531			BUSINESS PHONE 102 5102225280
BUSINESS SITE ADDRESS 103 1500 FITZGERALD DR			BUSINESS FAX 102a
BUSINESS SITE CITY 104 PINOLE	CA	ZIP CODE 105	COUNTY 108 Contra Costa
DUN & BRADSTREET 106 131978533		PRIMARY SIC 107 5311	PRIMARY NAICS 107a 45211
BUSINESS MAILING ADDRESS 108a 3333 Beverly Road, B5-362A			
BUSINESS MAILING CITY 108b Hoffman Estates		STATE 108c IL	ZIP CODE 108d 60179
BUSINESS OPERATOR NAME 109 Kmart Corporation			BUSINESS OPERATOR PHONE 110 5102225280

II. BUSINESS OWNER

OWNER NAME 111 KMART CORPORATION		OWNER PHONE 112 8472860037
OWNER MAILING ADDRESS 113 3333 BEVERLY RD, B5-348A		
OWNER MAILING CITY 114 HOFFMAN ESTATES	STATE 115 IL	ZIP CODE 116 60179

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117 Christopher Lipman		CONTACT PHONE 118 847-286-0037
CONTACT MAILING ADDRESS 119 3333 Beverly Rd, B5-348A		CONTACT EMAIL 119a chris.lipman@searshc.com
CONTACT MAILING CITY 120 Hoffman Estates	STATE 121 IL	ZIP CODE 122 60179

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME 123 TONY GUTIERREZ	NAME 128 OLIVER PERKINS
TITLE 124 STORE MANAGER	TITLE 129 LOSS PREVENTION MANAGER
BUSINESS PHONE 125 (510) 222-5280	BUSINESS PHONE 130 (510) 222-5280
24-HOUR PHONE 126 (510) 776-4762	24-HOUR PHONE 131 (510) 290-8950
PAGER # 127	PAGER # 132

ADDITIONAL LOCALLY COLLECTED INFORMATION 133

Billing Address: Christopher Lipman, 3333 Beverly Road B5-348A, Hoffman Estates, IL 60179

Property Owner: Phone No.: 2784

89 emp. Billing: Same as database AM

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134 2010/03/29	NAME OF DOCUMENT PREPARER 135 Christopher Lipman
NAME OF SIGNER (print) 136 Christopher Lipman	TITLE OF SIGNER 137 Environmental Specialist	

ENTERED

07-000-714432, KMART #3531, 3/30/2011 8:48:49 AM

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 1 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1. MAP # *(Optional)* 203 GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
LIQUEFIED PETROLEUM GAS

TRADE SECRET 206. If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
PROPANE

EHS* 208. ☐ Yes ☒ No

CAS# 209.
74-98-6

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER 215.
20

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
10

MAXIMUM DAILY AMOUNT 218.
20

ANNUAL WASTE AMOUNT 219.
60

STATE WASTE CODE 220.

UNITS* *(Check one item only)* ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 226.	227.	228. ☐ Yes ☐ No	229.
2. 230.	231.	232. ☐ Yes ☐ No	233.
3. 234.	235.	236. ☐ Yes ☐ No	237.
4. 238.	239.	240. ☐ Yes ☐ No	241.
5. 242.	243.	244. ☐ Yes ☐ No	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

Below

DOT Hazard Class: 2.1

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 2 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
USED LEAD ACID BATTERIES

TRADE SECRET 206. If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
USED LEAD ACID BATTERIES

EHS* 208. ☐ Yes ☒ No

CAS# 209.

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
CORROSIVE, TOXIC

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
36.5

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
109

MAXIMUM DAILY AMOUNT 218.
547

ANNUAL WASTE AMOUNT 219.
6500

STATE WASTE CODE 220.
792

UNITS* *(Check one item only)* 221. ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☒ r. OTHER

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 9 (226.)	SULFURIC ACID 0.1-9% (227.)	☐ Yes ☒ No (228.)	7664-93-9 (229.)
2. 31 (230.)	LEAD DIOXIDE (231.)	☐ Yes ☒ No (232.)	1309-60-0 (233.)
3. 34 (234.)	LEAD (235.)	☐ Yes ☒ No (236.)	7439-92-1 (237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.
547

DOT Hazard Class: 9

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 3 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE AEROSOL

TRADE SECRET 206. If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE AEROSOLS

EHS* 208. ☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
612

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☒ r. OTHER

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226)	Waste Aerosols (227)	☐ Yes ☒ No (228)	(229)
2. (230)	(231)	☐ Yes ☐ No (232)	(233)
3. (234)	(235)	☐ Yes ☐ No (236)	(237)
4. (238)	(239)	☐ Yes ☐ No (240)	(241)
5. (242)	(243)	☐ Yes ☐ No (244)	(245)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.
548

DOT Hazard Class: 9

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 4 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE CORROSIVES - ACIDIC

TRADE SECRET 206
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE CORROSIVES - ACIDIC

EHS* 208 ☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210
CORROSIVE

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211 ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213

PHYSICAL STATE *(Check one item only)* 214 ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215
20

FED HAZARD CATEGORIES *(Check all that apply)* 216 ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
10

MAXIMUM DAILY AMOUNT 218
20

ANNUAL WASTE AMOUNT 219.
60

STATE WASTE CODE 220.
135

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☐ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☒ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224 ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225 ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 226. 100	227. Waste Corrosives - Acidic	228. ☐ Yes ☒ No	229.
2. 230.	231.	232. ☐ Yes ☐ No	233.
3. 234.	235.	236. ☐ Yes ☐ No	237.
4. 238.	239.	240. ☐ Yes ☐ No	241.
5. 242.	243.	244. ☐ Yes ☐ No	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

Below

DOT Hazard Class: 9

If EPCRA, Please Sign Here _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 5 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 07-000-714432 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE CORROSIVES - BASIC

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207
WASTE CORROSIVES - BASIC

EHS* 208. ☐ Yes ☒ No

CAS# 209
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
CORROSIVE

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214 ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
20

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
10

MAXIMUM DAILY AMOUNT 218.
20

ANNUAL WASTE AMOUNT 219.
60

STATE WASTE CODE 220.
123

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Corrosives - Basic (227.)	☐ Yes ☒ No (228.)	(229.)
2. (230.)	(231.)	☐ Yes ☐ No (232.)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

Below

DOT Hazard Class: 8

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 6 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE FLAMMABLE LIQUIDS

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE FLAMMABLE LIQUIDS

EHS* 208. ☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE LIQUID, CLASS I-A, FLAMMABLE LIQUID, CLASS I-B, FLAMMABLE LIQUID, CLASS I-C

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
214

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Flammable Liquids (227.)	☐ Yes ☒ No (228.)	(229.)
2. (230.)	(231.)	☐ Yes ☐ No (232.)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

548

DOT Hazard Class: 3

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 7 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE OXIDIZERS

TRADE SECRET 206. If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE OXIDIZERS

EHS* 208. ☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
OXIDIZING, CLASS 1, OXIDIZING, CLASS 2, OXIDIZING, CLASS 3, OXIDIZING, CLASS 4

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
212

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 226. 100	227. Waste Oxidizers	228. ☐ Yes ☒ No	229.
2. 230	231.	232. ☐ Yes ☐ No	233.
3. 234	235.	236. ☐ Yes ☐ No	237.
4. 238.	239.	240. ☐ Yes ☐ No	241.
5. 242	243.	244. ☐ Yes ☐ No	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

520

DOT Hazard Class: 5.1

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.
☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1.

MAP # *(Optional)* 203.

GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE TOXICS

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE TOXICS

EHS* 208.
☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
TOXIC

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
133

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☐ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☒ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226)	Waste Toxics (227)	☐ Yes ☒ No (228)	(229)
2. (230)	(231)	☐ Yes ☐ No (232)	(233)
3. (234)	(235)	☐ Yes ☐ No (236)	(237)
4. (238)	(239)	☐ Yes ☐ No (240)	(241)
5. (242)	(243)	☐ Yes ☐ No (244)	(245)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

520

DOT Hazard Class: 6.1

If EPCRA, Please Sign Here. _____

07-000-714432, KMART #3531, 3/30/2011 8:48:37 AM

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200 | Page 1 of 2

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
Layaway Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.
☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 07-000-714432 1. | MAP # *(Optional)* 203. | GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
HELIUM

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
HELIUM

EHS* 208.
☐ Yes ☒ No
*If EHS is "Yes," all amounts below must be in lbs.

CAS# 209.
7440-59-7

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
COMPRESSED GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER 215.
244

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
200

MAXIMUM DAILY AMOUNT 218.
244

ANNUAL WASTE AMOUNT 219.

STATE WASTE CODE 220.

UNITS* *(Check one item only)* 221. ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 226	227	228 ☐ Yes ☐ No	229
2. 230	231	232 ☐ Yes ☐ No	233
3. 234	235	236 ☐ Yes ☐ No	237
4. 238	239	240 ☐ Yes ☐ No	241
5. 242	243	244 ☐ Yes ☐ No	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

2

DOT Hazard Class: 2.2

If EPCRA, Please Sign Here. _____

07-000-714432, KMART #3531, 3/30/2011 8:48:37 AM

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 2 of 2

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
TOOL ROOM, RECEIVING

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1 MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
LIQUEFIED PETROLEUM GAS

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
LIQUEFIED PETROLEUM GAS

EHS* 208. ☐ Yes ☒ No

CAS# 209.
74-98-6

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER 215.
33

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
99

MAXIMUM DAILY AMOUNT 218.
99

ANNUAL WASTE AMOUNT 219.

STATE WASTE CODE 220.

UNITS* *(Check one item only)* 221. ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK
☐ b. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN
☐ g. CARBOY
☐ h. SILO
☐ i. FIBER DRUM
☐ j. BAG
☐ k. BOX
☒ l. CYLINDER
☐ m. GLASS BOTTLE
☐ n. PLASTIC BOTTLE
☐ o. TOTE BIN
☐ p. TANK WAGON
☐ q. RAIL CAR
☐ r. OTHER

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	PROPANE (227.)	☐ Yes ☒ No (228.)	74-98-6 (229.)
2. 3 (230.)	BUTANE (231.)	☐ Yes ☒ No (232.)	78-76-2 (233.)
3. 10 (234.)	PROPYLENE (235.)	☐ Yes ☒ No (236.)	115-07-1 (237.)
4. 5 (238.)	ETHANE (239.)	☐ Yes ☒ No (240.)	74-84-0 (241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

99

DOT Hazard Class: 2.1

If EPCRA, Please Sign Here: _____

07-000-714432, KMART #3531, 3/30/2011 8:45:57 AM

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION FORM

For Use by Unidocs Member Agencies or where approved by your Local Jurisdiction
Authority Cited: Health and Safety Code §25503.3(c); 19 CCR §2729.5(c)

To: Agency Name: Contra Costa Health Services - Hazardous Materials Program
Agency Mailing Address: 4585 Pacheco Blvd., Suite 100
Martinez, CA 94553

Pursuant to Section 25503.3(c) of California Health and Safety Code (HSC), the Hazardous Materials Business Plan (HMBP) certification described below is hereby submitted for the following facility:

Facility Name: KMART #3531
Facility Street Address: 1500 FITZGERALD DR City: PINOLE
Date of Current HMBP: 2011/03/29

I certify that: *(Check the appropriate box.)*

☐ I have personally reviewed the Hazardous Materials Business Plan currently on file with your agency and certify that the HMBP is complete and accurate. *(See bottom of page for details.)* If this facility is subject to Federal Emergency Planning and Community Right to Know Act (EPCRA) reporting requirements, I have submitted the following documents with this Certification Form: Unified Program Consolidated Form (UPCF) Business Activities page; UPCF Business Owner/Operator Identification page with current signature and date; Hazardous Materials Inventory Statement page(s) with an original signature, photocopy of an original signature, or signature stamp on each page for all Extremely Hazardous Substances (EHS) handled at or above their Federal Threshold Planning Quantity (TPQ) or 500 pounds, whichever is less.

or

☒ Revisions to the Hazardous Materials Business Plan are necessary. The HMBP as revised is complete and accurate and is being implemented. A copy of the revisions has been electronically submitted or is enclosed with this Certification along with a signed UPCF Business Owner/Operator Identification page and UPCF Business Activities page if the HMBP revision include changes to the Hazardous Materials Inventory Statement.

OWNER/OPERATOR CERTIFICATION: I hereby certify under penalty of law that, based upon my inquiry of those individuals responsible for obtaining the information reported above, I believe that the submitted information is true, accurate, and complete. I understand that a revised HMBP must be submitted within 30 days of any change in this facility's storage or handling of hazardous materials that would require updating of the HMBP.

Name of Owner/Operator *(Print)*: Christopher Lipman Title: Environmental Specialist
Phone: NONE Signature: Date: 3/29/2011

By checking the upper box on this form, you are certifying that:

- The information contained in the HMBP most recently submitted is complete, accurate, and up-to-date; **and**
- There has been no change in the quantity of any hazardous material as reported in the most recently submitted Hazardous Materials Inventory forms; **and**
- The facility has not begun handling any hazardous material in a HMBP reportable quantity that is not currently listed in the Hazardous Materials Inventory; **and**
- The most recently submitted HMBP contains the information required by Section 11022 of Title 42 of the United States Code; **and**
- There have been no substantial changes in the facility's operations that would require revision of the current HMBP.

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # *(Agency Use Only)* 0 7 – 0 0 0 – 7 1 4 4 3 2 1.

EPA ID # (Hazardous Waste Only) CAL000018619 2.

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* 3.
KMART #3531

BUSINESS SITE ADDRESS 1500 FITZGERALD DR 103.

BUSINESS SITE CITY PINOLE 104. CA ZIP CODE 94564 105.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility…	If Yes, please complete these pages of the UPCF…	
A. HAZARDOUS MATERIALS Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4.	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. CalARP REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	☐ YES ☒ NO 4a.	Coordinate with your local agency responsible for CalARP.
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES ☒ NO 5.	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
D. ABOVE GROUND PETROLEUM STORAGE Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers?	☐ YES ☒ NO 8.	No form required to CUPAs
E. HAZARDOUS WASTE Generate hazardous waste?	☒ YES ☐ NO 9	EPA ID NUMBER – provide at top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?	☐ YES ☒ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste onsite?	☐ YES ☒ NO 11.	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit)
Perform treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE
Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13	REMOTE WASTE CONSOLIDATION SITE ANNUAL NOTIFICATION
Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☒ NO 14.	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more then 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste?	☐ YES ☒ NO 14a	Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
Serve as a Household Hazardous Waste (HHW) Collection site?	☐ YES ☒ NO 14b.	See CUPA for required forms.

F. LOCAL REQUIREMENTS (You may also be required to provide additional information by your CUPA or local agency.) 15.

employees: 89

CONTRA COSTA
HEALTH SERVICES

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APR 01 2011
Contra Costa Health
Hazardous Materials

2011 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY/SITE ID: 714432
Kmart #3531

EPA ID: CAL000018619

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by April 1, 2011. **Forms postmarked after April 1, 2011 may be subject to a 50% late filing fee.**

- Do not send payments at this time.
- Retain a copy for your records.

Determine the amount of hazardous waste your business generated and shipped offsite during the **2010** calendar year.

Total Tonnage of Hazardous Waste Shipped Offsite During 2010: 0.313 / Tons

PLEASE NOTE: USED OIL IS NO LONGER EXEMPT

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] Date: 03/30/2011

Print Name: Christopher Lipman

Title: Environmental Specialist Phone # (847) 286-0037

Forms postmarked after April 1, 2011 may be subject to a 50% late filing fee.

- Do not send payments at this time.
- Retain a copy for your records.

✓

714432

HAZARDOUS MATERIALS BUSINESS PLAN MODULES FOR USE WITH CERS ELECTRONIC REPORTING

Complete These Modules and Use the "Upload Document" Feature in CERS to Complete Your HMBP for Electronic Submittal

A. Emergency Response/Contingency Plan *[HSC §25504(b); 19 CCR §2731; 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written emergency response plan. In addition, facilities that generate 1,000 kilograms or more of hazardous waste (or more than 1 kilogram of acutely hazardous waste or 100 kilograms of debris resulting from the spill of an acutely hazardous waste) per month, or accumulate more than 6,000 kilograms of hazardous waste on-site at any one time, must prepare a hazardous waste contingency plan. Because the requirements are similar, they have been combined in a single document, provided below, for your convenience. This plan is a required module of the Hazardous Materials Business Plan (HMBP).

This site-specific Emergency Response/Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials that could threaten human health and/or the environment. **At least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** A copy of the plan and any revisions must be provided to any contractor, hospital, or agency with whom special (i.e., contractual) emergency services arrangements have been made *(see section 3, below)*.

RECEIVED

APR 01 2011

Contra Costa Health
Hazardous Materials

1. Evacuation Plan:

a. The following alarm signal(s) will be used to begin evacuation of the facility *(check all that apply)*:

☐ Bells; ☒ Horns/Sirens; ☒ Verbal *(i.e., shouting)*; ☐ Other *(specify* _____

b. ☒ Evacuation map is prominently displayed throughout the facility.

Note: A properly completed HMBP Site Plan satisfies contingency plan map requirements. This drawing (or any other drawing that shows primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas) must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

2. a. Emergency Contacts*:

Fire/Police/Ambulance	Phone No.: **911**
State Office of Emergency Services	Phone No.: **(800) 852-7550**

b. Post-Incident Contacts*:

Certified Unified Program Agency (CUPA)	Phone No.: **(925) 335-3200**
Local Hazardous Materials Program	Phone No.: **(925) 335-3200**
California EPA Department of Toxic Substances Control	Phone No.: **(510) 540-3739**
Cal-OSHA Division of Occupational Safety and Health	Phone No.: **(415) 557-1677**
Air Quality Management District	Phone No.: **(415) 771-6000**
Regional Water Quality Control Board	Phone No.: **(510) 622-2300**

*** Phone numbers for agencies in Unidocs Member Agency geographic jurisdictions are available at www.unidocs.org.**

c. Emergency Resources:

Poison Control Center*	Phone No.: **(800) 876-4766**

Nearest Hospital: Name: **Kaiser Permanente** Phone No.: **(707) 651-1000**

Address: **975 Sereno Drive** City: **Vallejo**

3. Arrangements With Emergency Responders: *(Attach additional pages, if needed.)*

If you have made special (i.e., contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements below:

No prior arrangements have been made. Corporate will hire a contractor when necessary.

4. Emergency Procedures:

Emergency Coordinator Responsibilities:

a. Whenever there is an imminent or actual emergency situation such as a explosion, fire, or release, the emergency coordinator *(or his/her designee when the emergency coordinator is on call)* shall:
   i. Identify the character, exact source, amount, and areal extent of any released hazardous materials.
   ii. Assess possible hazards to human health or the environment that may result from the explosion, fire, or release. This assessment must consider both direct and indirect effects *(e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, the effects of any hazardous surface water run-off from water or chemical agents used to control fire, etc.).*
   iii. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
   iv. Notify appropriate local authorities *(i.e., call 911).*
   v. Notify the State Office of Emergency Services at 1-800-852-7550.
   vi. Monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment shut down in response to the incident.
   vii. Take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility.

b. Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall:
   i. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from a explosion, fire, or release at the facility.
   ii. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.
   iii. Ensure that all emergency equipment is cleaned, fit for its intended use, and available for use.
   iv. Notify the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program that the facility is in compliance with requirements b-i and b-ii, above.

Responsibilities of Other Personnel:

On a separate page, list any emergency response functions not covered in the "Emergency Coordinator Responsibilities" section, above. Next to each function, list the job title or name of each person responsible for performing the function.

5. Post-Incident Reporting/Recording:

The time, date, and details of any hazardous materials incident that requires implementation of this plan shall be noted in the facility's operating record.

Within 15 days of any hazardous materials emergency incident or threatened hazardous materials emergency incident that triggers implementation of this plan, a written Emergency Incident Report, including, but not limited to a description of the incident and the facility's response to the incident, must be submitted to the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program. The report shall include:

a. Name, address, and telephone number of the facility's owner/operator;
b. Name, address, and telephone number of the facility;
c. Date, time, and type of incident *(e.g., fire, explosion, etc.)*;
d. Name and quantity of material(s) involved;
e. The extent of injuries, if any;
f. An assessment of actual or potential hazards to human health or the environment, where this is applicable;
g. Estimated quantity and disposition of recovered material that resulted from the incident;
h. Cause(es) of the incident;
i. Actions taken in response to the incident;
j. Administrative or engineering controls designed to prevent such incidents in the future.

6. Earthquake Vulnerability: [19 CCR §2731(e)]

As an attachment to this plan, you must identify any areas of the facility and mechanical or other systems that require immediate inspection or isolation because of their vulnerability to earthquake-related ground motion.

7. Hazard Mitigation/Prevention/Abatement: [19 CCR §2731(c)]

As an attachment to this plan, you must include procedures that provide for mitigation, prevention, or abatement of hazards to persons, property, or the environment. These procedures must be scaled appropriately for the size and nature of the business, the nature of the damage potential of the hazardous materials handled, and the proximity of the business to residential areas and other populations.

8. Emergency Equipment Inventory Table: *[22 CCR §66265.52(e), as referenced by §66262.34(a)(4)]*

Complete the following Emergency Equipment Inventory Table by identifying equipment maintained on-site:

1. Equipment Category	2. Equipment Type	3. Locations *	4. Description**
Personal Protective Equipment, Safety Equipment, and First Aid Equipment	☐ Cartridge Respirators		
	☐ Chemical Monitoring Equipment *(describe)*		
	☒ Chemical Protective Aprons/Coats	Spill Kits	
	☐ Chemical Protective Boots		
	☒ Chemical Protective Gloves	Spill Kits	Rubber
	☐ Chemical Protective Suits *(describe)*		
	☐ Face Shields		
	☒ First Aid Kits/Stations *(describe)*	Throughout	Basic First Aid Supplies
	☐ Hard Hats		
	☒ Plumbed Eye Wash Stations	Receiving	
	☐ Portable Eye Wash Kits *(i.e., bottle type)*		
	☐ Respirator Cartridges *(describe)*		
	☒ Safety Glasses/Splash Goggles	Spill Kits	
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☐ Other *(describe)*		
Fire Extinguishing Systems	☒ Automatic Fire Sprinkler Systems	Throughout	
	☒ Fire Alarm Boxes/Stations	Throughout	
	☐ Fire Extinguisher Systems *(describe)*		
	☒ Fire Extinguishers *(describe)*	Throughout	ABC Rating
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☒ Absorbents *(describe)*	Spill Kit	
	☒ Berms/Dikes *(describe)*	Spill Kit	
	☐ Decontamination Equipment *(describe)*		
	☐ Emergency Tanks *(describe)*		
	☐ Exhaust Hoods		
	☐ Gas Cylinder Leak Repair Kits *(describe)*		
	☒ Neutralizers *(describe)*	Spill Kit	Acid Neutralizer
	☒ Overpack Drums	Spill Kit	5-gallon buckets
	☐ Sumps *(describe)*		
	☐ Other *(describe)*		
Communications and Alarm Systems	☐ Chemical Alarms *(describe)*		
	☒ Intercoms/ PA Systems	Throughout	
	☒ Portable Radios	Throughout	
	☒ Telephones	Throughout	
	☐ Tank Leak Detection Systems		
	☐ Other *(describe)*		
Additional Equipment *(Use Additional Pages if Needed.)*	☐		
	☐		
	☐		
	☐		
	☐		

* *Use the map and grid numbers or location identifiers from your HMBP.*

** *Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, if needed.*

B. Employee Training Plan *[HSC, Section 25504(c); 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written employee training plan. This plan is a required module of the Hazardous Materials Business Plan (HMBP). A blank plan has been provided below for you to complete and submit if you do not already have such a plan. **If you already have a brief written description of your training program that addresses all subjects covered below, you are not required to complete the blank plan, below, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. *[Note: Items marked with an asterisk (*) are required.]*:

1. **Personnel** are trained in the following procedures:

☒	Internal alarm/notification *
☒	Evacuation/re-entry procedures & assembly point locations*
☒	Emergency incident reporting
☐	External emergency response organization notification
☒	Location(s) and contents of Emergency Response/Contingency Plan
☒	Facility evacuation drills, that are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

2. **Chemical Handlers** are additionally trained in the following:

☒	Safe methods for handling and storage of hazardous materials *
☒	Location(s) and proper use of fire and spill control equipment
☒	Spill procedures/emergency procedures
☒	Proper use of personal protective equipment *
☒	Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure *(i.e., inhalation, ingestion, absorption)* *
☒	**Hazardous Waste Handlers/Managers** are trained in all aspects of hazardous waste management specific to their job duties *(e.g., container accumulation time requirements, labeling requirements, storage area inspection requirements, manifesting requirements, etc.)* *

3. **Emergency Response Team Members** are capable of and engaged in the following:

Complete this section only if you have an in-house emergency response team

☐	Personnel rescue procedures
☒	Shutdown of operations
☒	Liaison with responding agencies
☒	Use, maintenance, and replacement of emergency response equipment
☒	Refresher training, which is provided at least annually *
☒	Emergency response drills, which are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

C. Record Keeping

All facilities that handle hazardous materials must maintain records associated with their management. A summary of your record keeping procedures is a required module of the Unidocs Hazardous Materials Business Plan (HMBP). A blank summary has been provided below for you to complete and submit if you do not already have such a document. **If you already have a brief written description of your hazardous materials record keeping systems that addresses all subjects covered below, you are not required to complete this page, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. The following records are maintained at the facility. *[Note: Items marked with an asterisk (*) are required.]*:

☒	Current employees' training records *(to be retained until closure of the facility)* *
☒	Former employees' training records *(to be retained at least three years after termination of employment)* *
☒	Training Program(s) *(i.e., written description of introductory and continuing training)* *
☒	Current copy of this Emergency Response/Contingency Plan *
☒	Record of recordable/reportable hazardous material/waste releases *
☒	Record of hazardous material/waste storage area inspections *
☒	Record of hazardous waste tank daily inspections *
☐	Description and documentation of facility emergency response drills

Note: The above list of records does not necessarily identify every type of record required to be maintained by the facility.

Note: The following section applies where local agencies require facility owners/operators to perform and document routine facility self-inspections:

A copy of the Inspection Check Sheet(s) or Log(s) used in conjunction with required routine self-inspections of your facility must be submitted with your HMBP. *[Exception: Unidocs provides a Hazardous Materials/Waste Storage Area Inspection Form that you may use if you do not already have your own form. If you use the Unidocs form (available at* **www.unidocs.org***), you do not need to attach a copy.]*

Check the appropriate box:

☐	We will use the Unidocs "Hazardous Materials/Waste Storage Area Inspection Form" to document inspections.
☒	We will use our own documents to record inspections. ***(A blank copy of each document used must be uploaded to CERS with the HMBP.)***

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4585 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
CHRISTOPHER LIPMAN **SEARS HOLDINGS CORP** **3333 BEVERLY RD, B5-348A** **HOFFMAN ESTATES IL 60179**	**KMART CORPORATION** **KMART #3531** **1500 FITZGERALD DR** **PINOLE, CA 94564**

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2011

Expiration Date 06/30/2012

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

RECEIVED

FEB 17 2012

Contra Costa Health Hazardous Materials

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION

BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION

FACILITY ID # (Agency Use Only) 1 — 714432		BEGINNING DATE 100. 01/01/2012	ENDING DATE 101. 06/30/2013
BUSINESS NAME (Same as Facility Name or DBA – Doing Business As) 3. KMART #3531			BUSINESS PHONE 102. 5102225280
BUSINESS SITE ADDRESS 103. 1500 FITZGERALD DR			BUSINESS FAX 102a.
BUSINESS SITE CITY 104. PINOLE	CA	ZIP CODE 105.	COUNTY 108. Contra Costa
DUN & BRADSTREET 106. 131978533		PRIMARY SIC 107. 5311	PRIMARY NAICS 107a. 45211
BUSINESS MAILING ADDRESS 108a. 3333 Beverly Road, B5-362A			
BUSINESS MAILING CITY 108b. Hoffman Estates		STATE 108c. IL	ZIP CODE 108d. 60179
BUSINESS OPERATOR NAME 109. Kmart Corporation			BUSINESS OPERATOR PHONE 110. 5102225280

II. BUSINESS OWNER

OWNER NAME 111. KMART CORPORATION		OWNER PHONE 112. 8472860037
OWNER MAILING ADDRESS 113. 3333 BEVERLY RD, B5-348A		
OWNER MAILING CITY 114 HOFFMAN ESTATES	STATE 115. IL	ZIP CODE 116. 60179

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117. Christopher Lipman		CONTACT PHONE 118. 847-286-0037
CONTACT MAILING ADDRESS 119. 3333 Beverly Rd, B5-348A		CONTACT EMAIL 119a. chris.lipman@searshc.com
CONTACT MAILING CITY 120. Hoffman Estates	STATE 121. IL	ZIP CODE 122. 60179

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME 123. TONY GUTIERREZ	NAME 128. OLIVER PERKINS
TITLE 124. STORE MANAGER	TITLE 129. LOSS PREVENTION MANAGER
BUSINESS PHONE 125. (510) 222-5280	BUSINESS PHONE 130. (510) 222-5280
24-HOUR PHONE 126. (510) 776-4762	24-HOUR PHONE 131. (510) 290-8950
PAGER # 127.	PAGER # 132.

ADDITIONAL LOCALLY COLLECTED INFORMATION: 133.

Billing Address: Christopher Lipman, 3333 Beverly Road B5-348A, Hoffman Estates, IL 60179

Property Owner: _____ Phone No.: _____

89 emp.

2782 el

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134 02/10/2012	NAME OF DOCUMENT PREPARER 135 Christopher Lipman
NAME OF SIGNER (print) 136 Christopher Lipman	TITLE OF SIGNER 137 Environmental Specialist	

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200.

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.
☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1.

MAP # *(Optional)* 203.

GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
LIQUEFIED PETROLEUM GAS

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
PROPANE

EHS* 208.
☐ Yes ☒ No

*If EHS is "Yes," all amounts below must be in lbs.

CAS# 209.
74-98-6

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER 215.
20

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
10

MAXIMUM DAILY AMOUNT 218.
20

ANNUAL WASTE AMOUNT 219.
60

STATE WASTE CODE 220.

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☒ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☒ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 226.	227.	☐ Yes ☐ No 228.	229.
2. 230.	231.	☐ Yes ☐ No 232.	233.
3. 234.	235.	☐ Yes ☐ No 236.	237.
4. 238.	239.	☐ Yes ☐ No 240.	241.
5. 242	243.	☐ Yes ☐ No 244.	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

Below

DOT Hazard Class: 2.1

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 2 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
USED LEAD ACID BATTERIES

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
USED LEAD ACID BATTERIES

EHS* 208. ☐ Yes ☒ No

CAS# 209.

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
CORROSIVE, TOXIC

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
36.5

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220.
109	547	6500	792

UNITS* *(Check one item only)* 221. ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☐ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☒ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☐ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
226. 1. 9	227. SULFURIC ACID 0.1-9%	228. ☐ Yes ☒ No	229. 7664-93-9
230. 2. 31	231. LEAD DIOXIDE	232. ☐ Yes ☒ No	233. 1309-60-0
234. 3. 34	235. LEAD	236. ☐ Yes ☒ No	237. 7439-92-1
238. 4.	239.	240. ☐ Yes ☐ No	241.
242. 5.	243.	244. ☐ Yes ☐ No	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

547

DOT Hazard Class: 9

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200.

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE AEROSOL

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
WASTE AEROSOLS

EHS* 208. ☐ Yes ☒ No
*If EHS is "Yes," all amounts below must be in lbs.

CAS# 209.
NA

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
612

UNITS* 221. *(Check one item only)* ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☒ r. OTHER

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Aerosols (227.)	☐ Yes ☒ No (228)	(229)
2. (230.)	(231.)	☐ Yes ☐ No (232)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

548

DOT Hazard Class: 9

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 4 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE CORROSIVES - ACIDIC

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
WASTE CORROSIVES - ACIDIC

EHS* 208. ☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
CORROSIVE

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
20

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
10

MAXIMUM DAILY AMOUNT 218.
20

ANNUAL WASTE AMOUNT 219.
60

STATE WASTE CODE 220.
135

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☐ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☒ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Corrosives - Acidic (227.)	☐ Yes ☒ No (228.)	(229.)
2. (230.)	(231.)	☐ Yes ☐ No (232.)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

Below

DOT Hazard Class: 9

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200.

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.
☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1.

MAP # *(Optional)* 203.

GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE CORROSIVES - BASIC

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE CORROSIVES - BASIC

EHS* 208.
☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
CORROSIVE

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
20

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
10

MAXIMUM DAILY AMOUNT 218.
20

ANNUAL WASTE AMOUNT 219.
60

STATE WASTE CODE 220.
123

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☐ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☒ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Corrosives - Basic (227.)	☐ Yes ☒ No (228.)	(229.)
2. (230.)	(231.)	☐ Yes ☐ No (232.)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.
Below

DOT Hazard Class: 8

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200.

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.
☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1.

MAP # *(Optional)* 203.

GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE FLAMMABLE LIQUIDS

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
WASTE FLAMMABLE LIQUIDS

EHS* 208.
☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE LIQUID, CLASS I-A, FLAMMABLE LIQUID, CLASS I-B, FLAMMABLE LIQUID, CLASS I-C

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
214

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Flammable Liquids (227.)	☐ Yes ☒ No (228.)	(229.)
2. (230.)	(231.)	☐ Yes ☐ No (232.)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

548

DOT Hazard Class: 3

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 7 of 8

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE OXIDIZERS

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
WASTE OXIDIZERS

EHS* 208. ☐ Yes ☒ No
*If EHS is "Yes," all amounts below must be in lbs.

CAS# 209.
NA

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
OXIDIZING, CLASS 1, OXIDIZING, CLASS 2, OXIDIZING, CLASS 3, OXIDIZING, CLASS 4

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
212

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG
☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN
☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	Waste Oxidizers (227.)	☐ Yes ☒ No (228.)	(229.)
2. (230.)	(231.)	☐ Yes ☐ No (232.)	(233.)
3. (234.)	(235.)	☐ Yes ☐ No (236.)	(237.)
4. (238.)	(239.)	☐ Yes ☐ No (240.)	(241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

520

DOT Hazard Class: 5.1

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200.

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
HAZWASTE STORAGE AREA/605 ROOM

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 - 0 0 0 - 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
WASTE TOXICS

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
WASTE TOXICS

EHS* 208. ☐ Yes ☒ No

CAS# 209.
NA

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210
TOXIC

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215.
65

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
33

MAXIMUM DAILY AMOUNT 218.
65

ANNUAL WASTE AMOUNT 219.
195

STATE WASTE CODE 220.
133

UNITS* *(Check one item only)* 221. ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☐ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☒ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 226	227. Waste Toxics	228. ☐ Yes ☒ No	229.
2. 230	231.	232. ☐ Yes ☐ No	233.
3. 234	235.	236. ☐ Yes ☐ No	237.
4. 238	239.	240. ☐ Yes ☐ No	241.
5. 242	243.	244. ☐ Yes ☐ No	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

520

DOT Hazard Class: 6.1

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200.

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
Layaway Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.
☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1.

MAP # *(Optional)* 203.

GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
HELIUM

TRADE SECRET 206.
If subject to EPCRA, refer to instructions ☐ Yes ☒ No

COMMON NAME 207.
HELIUM

EHS* 208.
☐ Yes ☒ No

CAS# 209.
7440-59-7

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
COMPRESSED GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER 215.
244

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
200

MAXIMUM DAILY AMOUNT 218.
244

ANNUAL WASTE AMOUNT 219.

STATE WASTE CODE 220.

UNITS* *(Check one item only)* 221. ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 226.	227.	228. ☐ Yes ☐ No	229.
2. 230.	231.	232. ☐ Yes ☐ No	233.
3. 234.	235.	236. ☐ Yes ☐ No	237.
4. 238.	239.	240. ☐ Yes ☐ No	241.
5. 242.	243.	244. ☐ Yes ☐ No	245.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

Below

DOT Hazard Class: 2.2

If EPCRA, Please Sign Here _____

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200. Page 2 of 2

I. FACILITY INFORMATION

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
KMART #3531

CHEMICAL LOCATION 201.
TOOL ROOM, RECEIVING

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202. ☐ YES ☒ NO

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 1. MAP # *(Optional)* 203. GRID # *(Optional)* 204.

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.
LIQUEFIED PETROLEUM GAS

TRADE SECRET 206. ☐ Yes ☒ No
If subject to EPCRA, refer to instructions

COMMON NAME 207.
LIQUEFIED PETROLEUM GAS

EHS* 208. ☐ Yes ☒ No

CAS# 209.
74-98-6

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES *(Complete if required by CUPA)* 210.
FLAMMABLE GAS

HAZARDOUS MATERIAL TYPE *(Check one item only)* 211. ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE 212. ☐ Yes ☒ No

CURIES 213.

PHYSICAL STATE *(Check one item only)* 214. ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER 215.
33

FED HAZARD CATEGORIES *(Check all that apply)* 216. ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.
99

MAXIMUM DAILY AMOUNT 218.
99

ANNUAL WASTE AMOUNT 219.

STATE WASTE CODE 220.

UNITS* *(Check one item only)* ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 221.
* If EHS, amount must be in pounds.

DAYS ON SITE 222.
365

STORAGE CONTAINER 223.
☐ a. ABOVEGROUND TANK ☐ f. CAN ☐ k. BOX ☐ p. TANK WAGON
☐ b. UNDERGROUND TANK ☐ g. CARBOY ☒ l. CYLINDER ☐ q. RAIL CAR
☐ c. TANK INSIDE BUILDING ☐ h. SILO ☐ m. GLASS BOTTLE ☐ r. OTHER
☐ d. STEEL DRUM ☐ i. FIBER DRUM ☐ n. PLASTIC BOTTLE
☐ e. PLASTIC/NONMETALLIC DRUM ☐ j. BAG ☐ o. TOTE BIN

STORAGE PRESSURE 224. ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225. ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

% WT	HAZARDOUS COMPONENT *(For mixture or waste only)*	EHS	CAS #
1. 100 (226.)	PROPANE (227.)	☐ Yes ☒ No (228.)	74-98-6 (229.)
2. 3 (230.)	BUTANE (231.)	☐ Yes ☒ No (232.)	78-76-2 (233.)
3. 10 (234.)	PROPYLENE (235.)	☐ Yes ☒ No (236.)	115-07-1 (237.)
4. 5 (238.)	ETHANE (239.)	☐ Yes ☒ No (240.)	74-84-0 (241.)
5. (242.)	(243.)	☐ Yes ☐ No (244.)	(245.)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

99

DOT Hazard Class: 2.1

If EPCRA, Please Sign Here. _____

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION

BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # *(Agency Use Only)* 0 7 0 0 0 7 1 4 4 3 2 — 1.

EPA ID # (Hazardous Waste Only) CAL000018619 — 2.

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* KMART #3531 — 3.

BUSINESS SITE ADDRESS 1500 FITZGERALD DR — 103.

BUSINESS SITE CITY PINOLE — 104. CA ZIP CODE 94564 — 105.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility…		If Yes, please complete these pages of the UPCF…
A. HAZARDOUS MATERIALS Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4.	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. CalARP REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	☐ YES ☒ NO 4a.	Coordinate with your local agency responsible for CalARP.
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES ☒ NO 5.	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
D. ABOVE GROUND PETROLEUM STORAGE Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers?	☐ YES ☒ NO 8.	No form required to CUPAs
E. HAZARDOUS WASTE Generate hazardous waste?	☒ YES ☐ NO 9.	EPA ID NUMBER – provide at top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?	☐ YES ☒ NO 10.	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste onsite?	☐ YES ☒ NO 11.	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit)
Perform treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE
Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13.	REMOTE WASTE CONSOLIDATION SITE ANNUAL NOTIFICATION
Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☒ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more then 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste?	☐ YES ☒ NO 14a.	Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
Serve as a Household Hazardous Waste (HHW) Collection site?	☐ YES ☒ NO 14b.	See CUPA for required forms.

F. LOCAL REQUIREMENTS (You may also be required to provide additional information by your CUPA or local agency.) — 15.

employees: 89

114432

HAZARDOUS MATERIALS BUSINESS PLAN MODULES FOR USE WITH CERS ELECTRONIC REPORTING

Complete These Modules and Use the "Upload Document" Feature in CERS to Complete Your HMBP for Electronic Submittal

A. Emergency Response/Contingency Plan *[HSC §25504(b); 19 CCR §2731; 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written emergency response plan. In addition, facilities that generate 1,000 kilograms or more of hazardous waste (or more than 1 kilogram of acutely hazardous waste or 100 kilograms of debris resulting from the spill of an acutely hazardous waste) per month, or accumulate more than 6,000 kilograms of hazardous waste on-site at any one time, must prepare a hazardous waste contingency plan. Because the requirements are similar, they have been combined in a single document, provided below, for your convenience. This plan is a required module of the Hazardous Materials Business Plan (HMBP).

This site-specific Emergency Response/Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials that could threaten human health and/or the environment. **At least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** A copy of the plan and any revisions must be provided to any contractor, hospital, or agency with whom special (i.e., contractual) emergency services arrangements have been made *(see section 3, below)*.

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FEB 17 2012
Contra Costa Health
Hazardous Materials

1. **Evacuation Plan:**

   a. The following alarm signal(s) will be used to begin evacuation of the facility *(check all that apply)*:

   ☐ Bells; ☒ Horns/Sirens; ☒ Verbal *(i.e., shouting)*; ☐ Other *(specify* _____

   b. ☒ Evacuation map is prominently displayed throughout the facility.

Note: A properly completed HMBP Site Plan satisfies contingency plan map requirements. This drawing (or any other drawing that shows primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas) must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

2. a. **Emergency Contacts*:**

Fire/Police/Ambulance	Phone No.: **911**
State Office of Emergency Services	Phone No.: **(800) 852-7550**

b. **Post-Incident Contacts*:**

Certified Unified Program Agency (CUPA)	Phone No.: **(925) 335-3200**
Local Hazardous Materials Program	Phone No.: **(925) 335-3200**
California EPA Department of Toxic Substances Control	Phone No.: **(510) 540-3739**
Cal-OSHA Division of Occupational Safety and Health	Phone No.: **(415) 557-1677**
Air Quality Management District	Phone No.: **(415) 771-6000**
Regional Water Quality Control Board	Phone No.: **(510) 622-2300**

*** Phone numbers for agencies in Unidocs Member Agency geographic jurisdictions are available at www.unidocs.org.**

c. **Emergency Resources:**

Poison Control Center*	Phone No.: **(800) 876-4766**
Nearest Hospital: Name: **Kaiser Permanente**	Phone No.: **(707) 651-1000**
Address: **975 Sereno Drive**	City: **Vallejo**

3. **Arrangements With Emergency Responders:** *(Attach additional pages, if needed.)*

If you have made special (i.e., contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements below:

No prior arrangements have been made. Corporate will hire a contractor when necessary.

4. Emergency Procedures:

Emergency Coordinator Responsibilities:

a. Whenever there is an imminent or actual emergency situation such as a explosion, fire, or release, the emergency coordinator *(or his/her designee when the emergency coordinator is on call)* shall:
   i. Identify the character, exact source, amount, and areal extent of any released hazardous materials.
   ii. Assess possible hazards to human health or the environment that may result from the explosion, fire, or release. This assessment must consider both direct and indirect effects *(e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, the effects of any hazardous surface water run-off from water or chemical agents used to control fire, etc.)*.
   iii. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
   iv. Notify appropriate local authorities *(i.e., call 911)*.
   v. Notify the State Office of Emergency Services at 1-800-852-7550.
   vi. Monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment shut down in response to the incident.
   vii. Take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility.

b. Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall:
   i. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from a explosion, fire, or release at the facility.
   ii. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.
   iii. Ensure that all emergency equipment is cleaned, fit for its intended use, and available for use.
   iv. Notify the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program that the facility is in compliance with requirements b-i and b-ii, above.

Responsibilities of Other Personnel:

On a separate page, list any emergency response functions not covered in the "Emergency Coordinator Responsibilities" section, above. Next to each function, list the job title or name of each person responsible for performing the function.

5. Post-Incident Reporting/Recording:

The time, date, and details of any hazardous materials incident that requires implementation of this plan shall be noted in the facility's operating record.

Within 15 days of any hazardous materials emergency incident or threatened hazardous materials emergency incident that triggers implementation of this plan, a written Emergency Incident Report, including, but not limited to a description of the incident and the facility's response to the incident, must be submitted to the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program. The report shall include:
   a. Name, address, and telephone number of the facility's owner/operator;
   b. Name, address, and telephone number of the facility;
   c. Date, time, and type of incident *(e.g., fire, explosion, etc.)*;
   d. Name and quantity of material(s) involved;
   e. The extent of injuries, if any;
   f. An assessment of actual or potential hazards to human health or the environment, where this is applicable;
   g. Estimated quantity and disposition of recovered material that resulted from the incident;
   h. Cause(es) of the incident;
   i. Actions taken in response to the incident;
   j. Administrative or engineering controls designed to prevent such incidents in the future.

6. Earthquake Vulnerability: [19 CCR §2731(e)]

As an attachment to this plan, you must identify any areas of the facility and mechanical or other systems that require immediate inspection or isolation because of their vulnerability to earthquake-related ground motion.

7. Hazard Mitigation/Prevention/Abatement: [19 CCR §2731(c)]

As an attachment to this plan, you must include procedures that provide for mitigation, prevention, or abatement of hazards to persons, property, or the environment. These procedures must be scaled appropriately for the size and nature of the business, the nature of the damage potential of the hazardous materials handled, and the proximity of the business to residential areas and other populations.

8. Emergency Equipment Inventory Table: *[22 CCR §66265.52(e), as referenced by §66262.34(a)(4)]*

Complete the following Emergency Equipment Inventory Table by identifying equipment maintained on-site:

1. Equipment Category	2. Equipment Type	3. Locations *	4. Description**
Personal Protective Equipment, Safety Equipment, and First Aid Equipment	☐ Cartridge Respirators		
	☐ Chemical Monitoring Equipment *(describe)*		
	☒ Chemical Protective Aprons/Coats	Spill Kits	
	☐ Chemical Protective Boots		
	☒ Chemical Protective Gloves	Spill Kits	Rubber
	☐ Chemical Protective Suits *(describe)*		
	☐ Face Shields		
	☒ First Aid Kits/Stations *(describe)*	Throughout	Basic First Aid Supplies
	☐ Hard Hats		
	☒ Plumbed Eye Wash Stations	Receiving	
	☐ Portable Eye Wash Kits *(i.e., bottle type)*		
	☐ Respirator Cartridges *(describe)*		
	☒ Safety Glasses/Splash Goggles	Spill Kits	
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☐ Other *(describe)*		
Fire Extinguishing Systems	☒ Automatic Fire Sprinkler Systems	Throughout	
	☒ Fire Alarm Boxes/Stations	Throughout	
	☐ Fire Extinguisher Systems *(describe)*		
	☒ Fire Extinguishers *(describe)*	Throughout	ABC Rating
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☒ Absorbents *(describe)*	Spill Kit	
	☒ Berms/Dikes *(describe)*	Spill Kit	
	☐ Decontamination Equipment *(describe)*		
	☐ Emergency Tanks *(describe)*		
	☐ Exhaust Hoods		
	☐ Gas Cylinder Leak Repair Kits *(describe)*		
	☒ Neutralizers *(describe)*	Spill Kit	Acid Neutralizer
	☒ Overpack Drums	Spill Kit	5-gallon buckets
	☐ Sumps *(describe)*		
	☐ Other *(describe)*		
Communications and Alarm Systems	☐ Chemical Alarms *(describe)*		
	☒ Intercoms/ PA Systems	Throughout	
	☒ Portable Radios	Throughout	
	☒ Telephones	Throughout	
	☐ Tank Leak Detection Systems		
	☐ Other *(describe)*		
Additional Equipment *(Use Additional Pages if Needed.)*	☐		
	☐		
	☐		
	☐		
	☐		

* *Use the map and grid numbers or location identifiers from your HMBP.*

** *Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, if needed.*

B. Employee Training Plan *[HSC, Section 25504(c); 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written employee training plan. This plan is a required module of the Hazardous Materials Business Plan (HMBP). A blank plan has been provided below for you to complete and submit if you do not already have such a plan. **If you already have a brief written description of your training program that addresses all subjects covered below, you are not required to complete the blank plan, below, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. *[Note: Items marked with an asterisk (*) are required.]*:

1. **Personnel** are trained in the following procedures:

☒	Internal alarm/notification *
☒	Evacuation/re-entry procedures & assembly point locations*
☒	Emergency incident reporting
☐	External emergency response organization notification
☒	Location(s) and contents of Emergency Response/Contingency Plan
☒	Facility evacuation drills, that are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

2. **Chemical Handlers** are additionally trained in the following:

☒	Safe methods for handling and storage of hazardous materials *
☒	Location(s) and proper use of fire and spill control equipment
☒	Spill procedures/emergency procedures
☒	Proper use of personal protective equipment *
☒	Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure *(i.e., inhalation, ingestion, absorption)* *
☒	**Hazardous Waste Handlers/Managers** are trained in all aspects of hazardous waste management specific to their job duties *(e.g., container accumulation time requirements, labeling requirements, storage area inspection requirements, manifesting requirements, etc.)* *

3. **Emergency Response Team Members** are capable of and engaged in the following:

Complete this section only if you have an in-house emergency response team

☐	Personnel rescue procedures
☒	Shutdown of operations
☒	Liaison with responding agencies
☒	Use, maintenance, and replacement of emergency response equipment
☒	Refresher training, which is provided at least annually *
☒	Emergency response drills, which are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

C. Record Keeping

All facilities that handle hazardous materials must maintain records associated with their management. A summary of your record keeping procedures is a required module of the Unidocs Hazardous Materials Business Plan (HMBP). A blank summary has been provided below for you to complete and submit if you do not already have such a document. **If you already have a brief written description of your hazardous materials record keeping systems that addresses all subjects covered below, you are not required to complete this page, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. The following records are maintained at the facility. *[Note: Items marked with an asterisk (*) are required.]*:

☒	Current employees' training records *(to be retained until closure of the facility)* *
☒	Former employees' training records *(to be retained at least three years after termination of employment)* *
☒	Training Program(s) *(i.e., written description of introductory and continuing training)* *
☒	Current copy of this Emergency Response/Contingency Plan *
☒	Record of recordable/reportable hazardous material/waste releases *
☒	Record of hazardous material/waste storage area inspections *
☒	Record of hazardous waste tank daily inspections *
☐	Description and documentation of facility emergency response drills

Note: The above list of records does not necessarily identify every type of record required to be maintained by the facility.

Note: The following section applies where local agencies require facility owners/operators to perform and document routine facility self-inspections:

A copy of the Inspection Check Sheet(s) or Log(s) used in conjunction with required routine self-inspections of your facility must be submitted with your HMBP. *[Exception: Unidocs provides a Hazardous Materials/Waste Storage Area Inspection Form that you may use if you do not already have your own form. If you use the Unidocs form (available at* **www.unidocs.org***), you do not need to attach a copy.]*

Check the appropriate box:

☐	We will use the Unidocs "Hazardous Materials/Waste Storage Area Inspection Form" to document inspections.
☒	We will use our own documents to record inspections. ***(A blank copy of each document used must be uploaded to CERS with the HMBP.)***

CONTRA COSTA
HEALTH SERVICES

RECEIVED
FEB 17 2012
Contra Costa Health
Hazardous Materials

2012 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY/SITE ID: SITE #714432
KMART #3531
1500 FITZGERALD DR
PINOLE

EPA ID: CAL000018619

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by March 1, 2012. **Forms postmarked after March 1, 2012 may be subject to a 50% late filing fee.**

- Do not send payments at this time.
- Retain a copy for your records.

Determine the amount of hazardous waste your business generated and shipped offsite during the **2011** calendar year.

Total Tonnage of Hazardous Waste Shipped Offsite During 2011: 1,142 / Tons

PLEASE NOTE: USED OIL IS NO LONGER EXEMPT

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] Date: 01/20/2012

Print Name: Christopher Lipman

Title: Environmental Specialist Phone # (847) 286-0037

Forms postmarked after March 1, 2012 may be subject to a 50% late filing fee.
- Do not send payments at this time.
- Retain a copy for your records.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 07/01/12 thru 06/30/13

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)	Permit #	Program Record #	Permit Fee Paid
1 HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457	YES
2 HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053361	YES

IMMEDIATELY NOTIFY HAZARDOUS MATERIALS IF THERE ARE CHANGES IN FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES) BY CALLING (925) 335-3200.

THIS IS NOT AN INVOICE

KMART CORPORATION
CHRISTOPHER LIPMAN
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Materials Business Plan Inspection/Compliance Checklist

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	15 NOV 2012

INSPECTION TYPE: (Routine) Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor Cl I = Major Cl II = Medium / Repeat Minor

Viol Code	Authority	Requirement	Viol Class	Violation Due Date/ Violation Corrected
BP01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.		
BP02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.		
BP03	19CCR 2729.4	Maximum quantity of all hazardous materials stored on site in reportable quantities are listed in the HMBP.		
BP04	19CCR 2729.5	Original signature on inventory forms for acutely hazardous materials ≥ Threshold Planning Quantities.		
BP05	19CCR 2729.2	Adequate submission / completion of site map.		
BP06	H&SC 25504	Adequate submission / completion / retention of written Emergency Response Plan.	CORRECTED	15 NOV 2012
BP07	27CCR 15210 & H&SC 25404	Full and timely payment of the HMBP program annual fee.		
BP08	H&SC 25503.5	HMBP is maintained on-site or is accessible.		
BP09	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.		
BP10	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.		
BP11	19CCR 2731(c) & H&SC 25503(e)(1)	Procedures in place to mitigate, prevent or abate hazards to persons, property or the environment from a release or threatened release of hazardous materials. **See back for Best Management Practices (BMP).**		
BP12	—	Other:		

See back for Best Management Practices (BMP)

Observation:

INVENTORY ~~REPORTED~~ OBSERVED CONSISTENT WITH 2012 HAZARDOUS MATERIALS BUSINESS PLAN (HMBP). FACILITY IS OVER REPORTING ON SEVERAL HAZARDOUS MATERIALS. SITE MAP IS ACCURATE. FACILITY HAS EMERGENCY RESPONSE PLAN AND POSTED PROCEDURES. TRAINING RECORDS COMPUTERIZED - TRAINING DATES VARY.

BP06- ADDED EARTHQUAKE VULNERABILITY ASSESSMENT TO EXISTING EMERGENCY RESPONSE PLAN DURING THE INSPECTION.

CONFIRMED

Total Time for Review and Inspection (in 15 minute increments): 8 ☐ Notice to Comply ☐ Notice of Violation ☐ No Violations Observed

Facility Rep Initials OEK CC Hazmat Initials DL Date 15 NOV 2012

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 FITZGERALD DRIVE PINOLE CA 94564	15 NOV 2012
Contact Name OLIVER PERKINS	EPA ID	SITE ID
Contact Telephone 510-290-8939	CAL000018619	714432

Program(s): (check all that apply)

☒ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☒ Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☒ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization
OLIVER PERKINS	LOSS PREVENTION MGR	KMART
DEVRA LEWIS	HMS	CCHSHMP.

Facility Description/Comments: SCHEDULED INSPECTION OF A RETAIL STORE. WENT OVER INSPECTION WITH MR. PERKINS.

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep OLIVER PERKINS Consent to Inspect given by	Facility Rep Signature	Date 11/15/2012
CC Hazmat Rep DEVRA LEWIS	CC Hazmat Signature Devra Lewis	Date 15 NOV 2012

714432

HAZARDOUS MATERIALS BUSINESS PLAN MODULES FOR USE WITH CERS ELECTRONIC REPORTING

Complete These Modules and Use the "Upload Document" Feature in CERS to Complete Your HMBP for Electronic Submittal

A. Emergency Response/Contingency Plan *[HSC §25504(b); 19 CCR §2731; 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written emergency response plan. In addition, facilities that generate 1,000 kilograms or more of hazardous waste (or more than 1 kilogram of acutely hazardous waste or 100 kilograms of debris resulting from the spill of an acutely hazardous waste) per month, or accumulate more than 6,000 kilograms of hazardous waste on-site at any one time, must prepare a hazardous waste contingency plan. Because the requirements are similar, they have been combined in a single document, provided below, for your convenience. This plan is a required module of the Hazardous Materials Business Plan (HMBP).

This site-specific Emergency Response/Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials that could threaten human health and/or the environment. **At least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** A copy of the plan and any revisions must be provided to any contractor, hospital, or agency with whom special (i.e., contractual) emergency services arrangements have been made *(see section 3, below)*.

~~RECEIVED~~ REVISED
NOV 15 2012
~~FEB 17 2012~~
Contra Costa Health
Hazardous Materials

1. **Evacuation Plan:**

   a. The following alarm signal(s) will be used to begin evacuation of the facility *(check all that apply)*:

   ☐ Bells; ☒ Horns/Sirens; ☒ Verbal *(i.e., shouting)*; ☐ Other *(specify)* _____

   b. ☒ Evacuation map is prominently displayed throughout the facility.

Note: A properly completed HMBP Site Plan satisfies contingency plan map requirements. This drawing (or any other drawing that shows primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas) must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

2. a. **Emergency Contacts*:**

Fire/Police/Ambulance	Phone No.: **911**
State Office of Emergency Services	Phone No.: **(800) 852-7550**

b. **Post-Incident Contacts*:**

Certified Unified Program Agency (CUPA)	Phone No.: **(925) 335-3200**
Local Hazardous Materials Program	Phone No.: **(925) 335-3200**
California EPA Department of Toxic Substances Control	Phone No.: **(510) 540-3739**
Cal-OSHA Division of Occupational Safety and Health	Phone No.: **(415) 557-1677**
Air Quality Management District	Phone No.: **(415) 771-6000**
Regional Water Quality Control Board	Phone No.: **(510) 622-2300**

* Phone numbers for agencies in Unidocs Member Agency geographic jurisdictions are available at www.unidocs.org.

c. **Emergency Resources:**

Poison Control Center*	Phone No.: **(800) 876-4766**

Nearest Hospital: Name: **Kaiser Permanente** Phone No.: **(707) 651-1000**

Address: **975 Sereno Drive** City: **Vallejo**

3. **Arrangements With Emergency Responders:** *(Attach additional pages, if needed.)*

If you have made special (i.e., contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements below:

No prior arrangements have been made. Corporate will hire a contractor when necessary.

4. Emergency Procedures:

Emergency Coordinator Responsibilities:

a. Whenever there is an imminent or actual emergency situation such as a explosion, fire, or release, the emergency coordinator *(or his/her designee when the emergency coordinator is on call)* shall:
   i. Identify the character, exact source, amount, and areal extent of any released hazardous materials.
   ii. Assess possible hazards to human health or the environment that may result from the explosion, fire, or release. This assessment must consider both direct and indirect effects *(e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, the effects of any hazardous surface water run-off from water or chemical agents used to control fire, etc.)*.
   iii. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
   iv. Notify appropriate local authorities *(i.e., call 911)*.
   v. Notify the State Office of Emergency Services at 1-800-852-7550.
   vi. Monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment shut down in response to the incident.
   vii. Take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility.

b. Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall:
   i. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from a explosion, fire, or release at the facility.
   ii. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.
   iii. Ensure that all emergency equipment is cleaned, fit for its intended use, and available for use.
   iv. Notify the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program that the facility is in compliance with requirements b-i and b-ii, above.

Responsibilities of Other Personnel:

On a separate page, list any emergency response functions not covered in the "Emergency Coordinator Responsibilities" section, above. Next to each function, list the job title or name of each person responsible for performing the function.

5. Post-Incident Reporting/Recording:

The time, date, and details of any hazardous materials incident that requires implementation of this plan shall be noted in the facility's operating record.

Within 15 days of any hazardous materials emergency incident or threatened hazardous materials emergency incident that triggers implementation of this plan, a written Emergency Incident Report, including, but not limited to a description of the incident and the facility's response to the incident, must be submitted to the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program. The report shall include:

a. Name, address, and telephone number of the facility's owner/operator;
b. Name, address, and telephone number of the facility;
c. Date, time, and type of incident *(e.g., fire, explosion, etc.)*;
d. Name and quantity of material(s) involved;
e. The extent of injuries, if any;
f. An assessment of actual or potential hazards to human health or the environment, where this is applicable;
g. Estimated quantity and disposition of recovered material that resulted from the incident;
h. Cause(es) of the incident;
i. Actions taken in response to the incident;
j. Administrative or engineering controls designed to prevent such incidents in the future.

6. Earthquake Vulnerability: [19 CCR §2731(e)]

As an attachment to this plan, you must identify any areas of the facility and mechanical or other systems that require immediate inspection or isolation because of their vulnerability to earthquake-related ground motion.

MAJORITY OF HAZARDOUS MATERIALS ON THE GROUND. ELEVATED MATERIALS SECURED WITH CORD. CYLINDERS CHAINED. CHECKING HAZARDOUS WASTE STORAGE AREA IS PART OF BACK AREA CHECK ONCE SAFE TO DO SO.

7. **Hazard Mitigation/Prevention/Abatement:** [19 CCR §2731(c)]

As an attachment to this plan, you must include procedures that provide for mitigation, prevention, or abatement of hazards to persons, property, or the environment. These procedures must be scaled appropriately for the size and nature of the business, the nature of the damage potential of the hazardous materials handled, and the proximity of the business to residential areas and other populations.

8. **Emergency Equipment Inventory Table:** *[22 CCR §66265.52(e), as referenced by §66262.34(a)(4)]*

Complete the following Emergency Equipment Inventory Table by identifying equipment maintained on-site:

1. Equipment Category	2. Equipment Type	3. Locations *	4. Description**
Personal Protective Equipment, Safety Equipment, and First Aid Equipment	☐ Cartridge Respirators		
	☐ Chemical Monitoring Equipment *(describe)*		
	☒ Chemical Protective Aprons/Coats	Spill Kits	
	☐ Chemical Protective Boots		
	☒ Chemical Protective Gloves	Spill Kits	Rubber
	☐ Chemical Protective Suits *(describe)*		
	☐ Face Shields		
	☒ First Aid Kits/Stations *(describe)*	Throughout	Basic First Aid Supplies
	☐ Hard Hats		
	☒ Plumbed Eye Wash Stations	Receiving	
	☐ Portable Eye Wash Kits *(i.e., bottle type)*		
	☐ Respirator Cartridges *(describe)*		
	☒ Safety Glasses/Splash Goggles	Spill Kits	
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☐ Other *(describe)*		
Fire Extinguishing Systems	☒ Automatic Fire Sprinkler Systems	Throughout	
	☒ Fire Alarm Boxes/Stations	Throughout	
	☐ Fire Extinguisher Systems *(describe)*		
	☒ Fire Extinguishers *(describe)*	Throughout	ABC Rating
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☒ Absorbents *(describe)*	Spill Kit	
	☒ Berms/Dikes *(describe)*	Spill Kit	
	☐ Decontamination Equipment *(describe)*		
	☐ Emergency Tanks *(describe)*		
	☐ Exhaust Hoods		
	☐ Gas Cylinder Leak Repair Kits *(describe)*		
	☒ Neutralizers *(describe)*	Spill Kit	Acid Neutralizer
	☒ Overpack Drums	Spill Kit	5-gallon buckets
	☐ Sumps *(describe)*		
	☐ Other *(describe)*		
Communications and Alarm Systems	☐ Chemical Alarms *(describe)*		
	☒ Intercoms/ PA Systems	Throughout	
	☒ Portable Radios	Throughout	
	☒ Telephones	Throughout	
	☐ Tank Leak Detection Systems		
	☐ Other *(describe)*		
Additional Equipment *(Use Additional Pages if Needed.)*	☐		
	☐		
	☐		
	☐		
	☐		

* *Use the map and grid numbers or location identifiers from your HMBP.*

** *Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, if needed.*

B. Employee Training Plan *[HSC, Section 25504(c); 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written employee training plan. This plan is a required module of the Hazardous Materials Business Plan (HMBP). A blank plan has been provided below for you to complete and submit if you do not already have such a plan. **If you already have a brief written description of your training program that addresses all subjects covered below, you are not required to complete the blank plan, below, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. *[Note: Items marked with an asterisk (*) are required.]*:

1. **Personnel** are trained in the following procedures:

☒	Internal alarm/notification *
☒	Evacuation/re-entry procedures & assembly point locations*
☒	Emergency incident reporting
☐	External emergency response organization notification
☒	Location(s) and contents of Emergency Response/Contingency Plan
☒	Facility evacuation drills, that are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

2. **Chemical Handlers** are additionally trained in the following:

☒	Safe methods for handling and storage of hazardous materials *
☒	Location(s) and proper use of fire and spill control equipment
☒	Spill procedures/emergency procedures
☒	Proper use of personal protective equipment *
☒	Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure *(i.e., inhalation, ingestion, absorption)* *
☒	**Hazardous Waste Handlers/Managers** are trained in all aspects of hazardous waste management specific to their job duties *(e.g., container accumulation time requirements, labeling requirements, storage area inspection requirements, manifesting requirements, etc.)* *

3. **Emergency Response Team Members** are capable of and engaged in the following:

Complete this section only if you have an in-house emergency response team

☐	Personnel rescue procedures
☒	Shutdown of operations
☒	Liaison with responding agencies
☒	Use, maintenance, and replacement of emergency response equipment
☒	Refresher training, which is provided at least annually *
☒	Emergency response drills, which are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

C. Record Keeping

All facilities that handle hazardous materials must maintain records associated with their management. A summary of your record keeping procedures is a required module of the Unidocs Hazardous Materials Business Plan (HMBP). A blank summary has been provided below for you to complete and submit if you do not already have such a document. **If you already have a brief written description of your hazardous materials record keeping systems that addresses all subjects covered below, you are not required to complete this page, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. The following records are maintained at the facility. *[Note: Items marked with an asterisk (*) are required.]*:

☒	Current employees' training records *(to be retained until closure of the facility)* *
☒	Former employees' training records *(to be retained at least three years after termination of employment)* *
☒	Training Program(s) *(i.e., written description of introductory and continuing training)* *
☒	Current copy of this Emergency Response/Contingency Plan *
☒	Record of recordable/reportable hazardous material/waste releases *
☒	Record of hazardous material/waste storage area inspections *
☒	Record of hazardous waste tank daily inspections *
☐	Description and documentation of facility emergency response drills

Note: The above list of records does not necessarily identify every type of record required to be maintained by the facility.

Note: The following section applies where local agencies require facility owners/operators to perform and document routine facility self-inspections:

A copy of the Inspection Check Sheet(s) or Log(s) used in conjunction with required routine self-inspections of your facility must be submitted with your HMBP. *[Exception: Unidocs provides a Hazardous Materials/Waste Storage Area Inspection Form that you may use if you do not already have your own form. If you use the Unidocs form (available at* **www.unidocs.org***), you do not need to attach a copy.]*

Check the appropriate box:

☐	We will use the Unidocs "Hazardous Materials/Waste Storage Area Inspection Form" to document inspections.
☒	We will use our own documents to record inspections. ***(A blank copy of each document used must be uploaded to CERS with the HMBP.)***

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist (page 1 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	15 Nov 2012

INSPECTION TYPE: (Routine) / Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor CI I = Major CI II = Medium / Repeat Minor

EPA ID: CAL000018619

Disposal Documents Reviewed For Year: 2011

HW Gen Rpt Form On File? [X] Yes [ ] No

Total Annual Tonnage of All Hazardous Waste Generated: 0.28 T

CA State Waste Code If applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
331, D001, 16, 35, 39	OFF SPEC - WASTE AEROSOL, PROPANE	278 lbs
141	WASTE OXIDIZER, BLEACH	93 lbs
791, D002	WASTE CORROSIVE LIQUID - ACIDIC	17 lbs
123, D002	WASTE CORROSIVE LIQUID - CAUSTIC	27 lbs.
291	WASTE LATEX PAINT	94 lbs.
214, D001	WASTE FLAMMABLE LIQUID	54 lbs.
	Additional Wastes on Continuation Sheet? [ ] Yes [X] No	

Generator Status:
[ ] RCRA-LQG > 1,000 kg/month [ ] CA-LQG > 1,000 kg/month [ ] CA-SQG > 100 to < 1,000 kg/month [X] CA-CESQG < 100 kg/month [ ] Episodic

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days)		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC		
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(iii)	CCR 22 66265.16	Employee training program adequate.		
HW20	—	CCR 22 66265.16	Training Documentation		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency.		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

Facility Rep Initials: [signature] CC Hazmat Rep Initials: [signature] Date: 15 Nov 2012

ENTERED

CONTRA COSTA HEALTH SERVICES

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4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	15 NOV 2012

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available.		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33 Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space		
HW31	40 CFR 265.37, Via 262.34(d)(4)	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(l)	CCR 22 66261.7(e)(f)(l)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.201, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.201 Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations: VERY CLEAN HAZARDOUS WASTE STORAGE AREA. EXCELLENT CONTAINERS CONTAINERS ARE CLOSED AND LABELED. WEEKLY DOCUMENTED INSPECTIONS. PROCEDURES POSTED. SPILL KIT. ACTIVE EPA ID#

Total Time for Review and Inspection (in 15 minute increments): ☐ Notice to Comply ☐ Notice of Violation ☒ No Violations Observed

Facility Rep Initials OSE | CC Hazmat Rep Initials DL | Date 15 NOV 2012

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Deborah O. Raphael, Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Edmund G. Brown Jr.
Governor

EPA ID PROFILE

ID Number: CAL000018619 **Name :** KMART CORPORATION

Status: ACTIVE **Inactive Date:** **Record Entered:** 11/14/1989 **Last Updated:** 04/05/2010

County: CONTRA COSTA **NAICS:** 45299 **SIC:** 5399

	Name	Address	City	State	Zip Code	Phone
Location	KMART CORPORATION	1500 FITZGERALD DR	PINOLE	CA	945640000	
Mailing		3333 BEVERLY RD B5-362A	HOFFMAN ESTATES	IL	601790000	
Owner	KMART CORPORATION #3531	3333 BEVERLY RD B5-362A	HOFFMAN ESTATES	IL	601790000	8472867222
Operator/ Contact	MICHAEL OLSEN-DIR ENV AFFAIRS	3333 BEVERLY RD B5-362A	HOFFMAN ESTATES	IL	601790000	8472867222

Based ONLY upon ID Number **CAL000018619**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 11/14/2012

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR
2007	1 0.0625
2008	4 0.2975
2009	5 0.4245
2010	4 0.1490
2011	3 0.3040

Non California Manifest Total Tonnage

Waste Code By Year By Entity Matrix Report
(based on California Manifests only)

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

California Waste Code By Year Matrix

ID Number: **CAL000018619**

Entity Type : **GENERATOR**

Weight (in Tons)

Ship Years

Calif. Code	Description	2007	2008	2009	2010	2011
122	ALKALINE SOLUTION (PH>=12.5) W/O METALS					0.0325
123	UNSPECIFIED ALKALINE SOLUTION		0.0015			
141	OFF-SPEC, AGED, OR SURPLUS INORGANICS		0.0130	0.0100	0.0150	0.0210
214	UNSPECIFIED SOLVENT MIXTURE		0.0585	0.1515	0.0475	0.0270
291	LATEX WASTE				0.0100	0.0425
331	OFF-SPEC, AGED, OR SURPLUS ORGANICS		0.2240	0.2630	0.0765	0.1810
352	OTHER ORGANIC SOLIDS	0.0625				
791	LIQUIDS W PH<=2		0.0005			
	Grand Total	**0.0625**	**0.2975**	**0.4245**	**0.1490**	**0.3040**

RCRA Waste Code By Year Matrix Report

ID Number: CAL000018619

Entity Type: GENERATOR

Weight (in Tons)

Ship Years

RCRA Code	Description	2007	2008	2009	2010	2011
	Blank/Unknown		0.0035		0.0250	0.0685
D001	Ignitable	0.0625	0.0965	0.1815	0.0475	0.0270
D002	Corrosives		0.0020			0.0325
D016	2,4-D				0.0100	0.0885
D035	Methyl ethyl ketone					0.0385
D037	Pentrachlorophenol		0.0385			
D039	Tetrachloroethylene		0.1570	0.2430	0.0665	0.0490
	Grand Total	0.0625	0.2975	0.4245	0.1490	0.3040

714432

HAZARDOUS MATERIALS BUSINESS PLAN MODULES FOR USE WITH CERS ELECTRONIC REPORTING

Complete These Modules and Use the "Upload Document" Feature in CERS to Complete Your HMBP for Electronic Submittal

A. Emergency Response/Contingency Plan *[HSC §25504(b); 19 CCR §2731; 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written emergency response plan. In addition, facilities that generate 1,000 kilograms or more of hazardous waste (or more than 1 kilogram of acutely hazardous waste or 100 kilograms of debris resulting from the spill of an acutely hazardous waste) per month, or accumulate more than 6,000 kilograms of hazardous waste on-site at any one time, must prepare a hazardous waste contingency plan. Because the requirements are similar, they have been combined in a single document, provided below, for your convenience. This plan is a required module of the Hazardous Materials Business Plan (HMBP).

This site-specific Emergency Response/Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials that could threaten human health and/or the environment. **At least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency.** A copy of the plan and any revisions must be provided to any contractors, hospitals, or agencies with whom special (i.e., contractual) emergency services arrangements have been made *(see section 3, below)*.

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MAR 21 2013
Contra Costa Health
Hazardous Materials

1. Evacuation Plan:

a. The following alarm signal(s) will be used to begin evacuation of the facility *(check all that apply)*:

☐ Bells; ☒ Horns/Sirens; ☒ Verbal *(i.e., shouting)*; ☐ Other *(specify* _____

b. ☒ Evacuation map is prominently displayed throughout the facility.

Note: A properly completed HMBP Site Plan satisfies contingency plan map requirements. This drawing (or any other drawing that shows primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas) must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

2. a. Emergency Contacts*:

Fire/Police/Ambulance	Phone No.: **911**
State Office of Emergency Services	Phone No.: **(800) 852-7550**

b. Post-Incident Contacts*:

Certified Unified Program Agency (CUPA)	Phone No.: **(925) 335-3200**
Local Hazardous Materials Program	Phone No.: **(925) 335-3200**
California EPA Department of Toxic Substances Control	Phone No.: **(510) 540-3739**
Cal-OSHA Division of Occupational Safety and Health	Phone No.: **(415) 557-1677**
Air Quality Management District	Phone No.: **(415) 771-6000**
Regional Water Quality Control Board	Phone No.: **(510) 622-2300**

*** Phone numbers for agencies in Unidocs Member Agency geographic jurisdictions are available at www.unidocs.org.**

c. Emergency Resources:

Poison Control Center*	Phone No.: **(800) 876-4766**

Nearest Hospital: Name: **Kaiser Permanente** Phone No.: **(707) 651-1000**

Address: **975 Sereno Drive** City: **Vallejo**

3. Arrangements With Emergency Responders: *(Attach additional pages, if needed.)*

If you have made special (i.e., contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements below:

No prior arrangements have been made. Corporate will hire a contractor when necessary.

4. Emergency Procedures:

Emergency Coordinator Responsibilities:

a. Whenever there is an imminent or actual emergency situation such as a explosion, fire, or release, the emergency coordinator *(or his/her designee when the emergency coordinator is on call)* shall:
   i. Identify the character, exact source, amount, and areal extent of any released hazardous materials.
   ii. Assess possible hazards to human health or the environment that may result from the explosion, fire, or release. This assessment must consider both direct and indirect effects *(e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, the effects of any hazardous surface water run-off from water or chemical agents used to control fire, etc.)*.
   iii. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
   iv. Notify appropriate local authorities *(i.e., call 911)*.
   v. Notify the State Office of Emergency Services at 1-800-852-7550.
   vi. Monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment shut down in response to the incident.
   vii. Take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility.

b. Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall:
   i. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from a explosion, fire, or release at the facility.
   ii. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.
   iii. Ensure that all emergency equipment is cleaned, fit for its intended use, and available for use.
   iv. Notify the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program that the facility is in compliance with requirements b-i and b-ii, above.

Responsibilities of Other Personnel:

On a separate page, list any emergency response functions not covered in the "Emergency Coordinator Responsibilities" section, above. Next to each function, list the job title or name of each person responsible for performing the function.

5. Post-Incident Reporting/Recording:

The time, date, and details of any hazardous materials incident that requires implementation of this plan shall be noted in the facility's operating record.

Within 15 days of any hazardous materials emergency incident or threatened hazardous materials emergency incident that triggers implementation of this plan, a written Emergency Incident Report, including, but not limited to a description of the incident and the facility's response to the incident, must be submitted to the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program. The report shall include:

a. Name, address, and telephone number of the facility's owner/operator;
b. Name, address, and telephone number of the facility;
c. Date, time, and type of incident *(e.g., fire, explosion, etc.)*;
d. Name and quantity of material(s) involved;
e. The extent of injuries, if any;
f. An assessment of actual or potential hazards to human health or the environment, where this is applicable;
g. Estimated quantity and disposition of recovered material that resulted from the incident;
h. Cause(es) of the incident;
i. Actions taken in response to the incident;
j. Administrative or engineering controls designed to prevent such incidents in the future.

6. Earthquake Vulnerability: [19 CCR §2731(e)]

As an attachment to this plan, you must identify any areas of the facility and mechanical or other systems that require immediate inspection or isolation because of their vulnerability to earthquake-related ground motion.

7. **Hazard Mitigation/Prevention/Abatement:** [19 CCR §2731(c)]

As an attachment to this plan, you must include procedures that provide for mitigation, prevention, or abatement of hazards to persons, property, or the environment. These procedures must be scaled appropriately for the size and nature of the business, the nature of the damage potential of the hazardous materials handled, and the proximity of the business to residential areas and other populations.

8. **Emergency Equipment Inventory Table:** *[22 CCR §66265.52(e), as referenced by §66262.34(a)(4)]*

Complete the following Emergency Equipment Inventory Table by identifying equipment maintained on-site:

1. Equipment Category	2. Equipment Type	3. Locations *	4. Description**
Personal Protective Equipment, Safety Equipment, and First Aid Equipment	☐ Cartridge Respirators		
	☐ Chemical Monitoring Equipment *(describe)*		
	☒ Chemical Protective Aprons/Coats	Spill Kits	
	☐ Chemical Protective Boots		
	☒ Chemical Protective Gloves	Spill Kits	Rubber
	☐ Chemical Protective Suits *(describe)*		
	☐ Face Shields		
	☒ First Aid Kits/Stations *(describe)*	Throughout	Basic First Aid Supplies
	☐ Hard Hats		
	☒ Plumbed Eye Wash Stations	Receiving	
	☐ Portable Eye Wash Kits *(i.e., bottle type)*		
	☐ Respirator Cartridges *(describe)*		
	☒ Safety Glasses/Splash Goggles	Spill Kits	
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☐ Other *(describe)*		
Fire Extinguishing Systems	☒ Automatic Fire Sprinkler Systems	Throughout	
	☒ Fire Alarm Boxes/Stations	Throughout	
	☐ Fire Extinguisher Systems *(describe)*		
	☒ Fire Extinguishers *(describe)*	Throughout	ABC Rating
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☒ Absorbents *(describe)*	Spill Kit	
	☒ Berms/Dikes *(describe)*	Spill Kit	
	☐ Decontamination Equipment *(describe)*		
	☐ Emergency Tanks *(describe)*		
	☐ Exhaust Hoods		
	☐ Gas Cylinder Leak Repair Kits *(describe)*		
	☒ Neutralizers *(describe)*	Spill Kit	Acid Neutralizer
	☒ Overpack Drums	Spill Kit	5-gallon buckets
	☐ Sumps *(describe)*		
	☐ Other *(describe)*		
Communications and Alarm Systems	☐ Chemical Alarms *(describe)*		
	☒ Intercoms/ PA Systems	Throughout	
	☒ Portable Radios	Throughout	
	☒ Telephones	Throughout	
	☐ Tank Leak Detection Systems		
	☐ Other *(describe)*		
Additional Equipment *(Use Additional Pages if Needed.)*	☐		
	☐		
	☐		
	☐		
	☐		

* *Use the map and grid numbers or location identifiers from your HMBP.*

** *Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, if needed.*

B. Employee Training Plan *[HSC, Section 25504(c); 22 CCR §66262.34(a)(4)]*

All facilities that handle hazardous materials in HMBP quantities must have a written employee training plan. This plan is a required module of the Hazardous Materials Business Plan (HMBP). A blank plan has been provided below for you to complete and submit if you do not already have such a plan. **If you already have a brief written description of your training program that addresses all subjects covered below, you are not required to complete the blank plan, below, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. *[Note: Items marked with an asterisk (*) are required.]*:

1. **Personnel** are trained in the following procedures:

☒	Internal alarm/notification *
☒	Evacuation/re-entry procedures & assembly point locations*
☒	Emergency incident reporting
☐	External emergency response organization notification
☒	Location(s) and contents of Emergency Response/Contingency Plan
☒	Facility evacuation drills, that are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

2. **Chemical Handlers** are additionally trained in the following:

☒	Safe methods for handling and storage of hazardous materials *
☒	Location(s) and proper use of fire and spill control equipment
☒	Spill procedures/emergency procedures
☒	Proper use of personal protective equipment *
☒	Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure *(i.e., inhalation, ingestion, absorption)* *
☒	**Hazardous Waste Handlers/Managers** are trained in all aspects of hazardous waste management specific to their job duties *(e.g., container accumulation time requirements, labeling requirements, storage area inspection requirements, manifesting requirements, etc.)* *

3. **Emergency Response Team Members** are capable of and engaged in the following:

Complete this section only if you have an in-house emergency response team

☐	Personnel rescue procedures
☒	Shutdown of operations
☒	Liaison with responding agencies
☒	Use, maintenance, and replacement of emergency response equipment
☒	Refresher training, which is provided at least annually *
☒	Emergency response drills, which are conducted at least *(specify)*: annually *(e.g., "Quarterly", etc.)*

C. Record Keeping

All facilities that handle hazardous materials must maintain records associated with their management. A summary of your record keeping procedures is a required module of the Unidocs Hazardous Materials Business Plan (HMBP). A blank summary has been provided below for you to complete and submit if you do not already have such a document. **If you already have a brief written description of your hazardous materials record keeping systems that addresses all subjects covered below, you are not required to complete this page, but you must include a copy of your existing document as part of your HMBP.**

Check all boxes that apply. The following records are maintained at the facility. *[Note: Items marked with an asterisk (*) are required.]*:

☒	Current employees' training records *(to be retained until closure of the facility)* *
☒	Former employees' training records *(to be retained at least three years after termination of employment)* *
☒	Training Program(s) *(i.e., written description of introductory and continuing training)* *
☒	Current copy of this Emergency Response/Contingency Plan *
☒	Record of recordable/reportable hazardous material/waste releases *
☒	Record of hazardous material/waste storage area inspections *
☒	Record of hazardous waste tank daily inspections *
☐	Description and documentation of facility emergency response drills

Note: The above list of records does not necessarily identify every type of record required to be maintained by the facility.

Note: The following section applies where local agencies require facility owners/operators to perform and document routine facility self-inspections:

A copy of the Inspection Check Sheet(s) or Log(s) used in conjunction with required routine self-inspections of your facility must be submitted with your HMBP. *[Exception: Unidocs provides a Hazardous Materials/Waste Storage Area Inspection Form that you may use if you do not already have your own form. If you use the Unidocs form (available at* **www.unidocs.org***), you do not need to attach a copy.]*

Check the appropriate box:

☐	We will use the Unidocs "Hazardous Materials/Waste Storage Area Inspection Form" to document inspections.
☒	We will use our own documents to record inspections. ***(A blank copy of each document used must be uploaded to CERS with the HMBP.)***

7144 32

California Environmental Reporting System (CERS) | Business Owner Operator

Facility/Site
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

RECEIVED
MAR 21 2013
Contra Costa Health
Hazardous Materials

CERS ID
10005925

Submittal Status
Submitted on 3/21/2013 by *Robyn West* of SEARS, Roebuck & Co. / Kmart Corporation (Hoffman Estates, IL)
Submittal was ***Accepted***; Processed on 6/5/2013 by *Philip France* for Contra Costa County Health Services Department

Identification
Kmart Corporation

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date	
(847) 286-0037	(510) 222-5280		3/1/2013	3/1/2014	
			Dun & Bradstreet	SIC Code	Primary NAICS
			131978533	5311	45211

Facility/Site Mailing Address
3333 Beverly Road, B5-362A
Hoffman Estates, IL 60179

Primary Emergency Contact
TONY GUTIERREZ
Title
STORE MANAGER

Business Phone	24-Hour Phone	Pager Number
(510) 222-5280	(510) 776-4762	

Owner
KMART CORPORATION
(847) 286-0037
3333 Beverly Road, B5-348A
Hoffman Estates, IL 60179

Secondary Emergency Contact
OLIVER PERKINS
Title
LOSS PREVENTION MANAGER

Business Phone	24-Hour Phone	Pager Number
(510) 222-5280	(510) 290-8950	

Billing Contact
Robyn West
(847) 286-0037 robyn.west@searshc.com
3333 Beverly Road B5-348A
Hoffman Estates, IL 60179

Environmental Contact
Robyn West
(847) 286-0037 robyn.west@searshc.com
3333 Beverly Rd, B5-348A
Hoffman Estates, IL 60179

Name of Signer	Signer Title	Document Preparer
Robyn A. West	Environmental Specialist	Robyn West

Additional Information
4/05-Reactivated site (closed 1989) per submittal by corp office. LL 9/06-Updated mail address info. LL

# of EMPLOYEES: 89

Locally-collected Fields
Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees
86

Facility ID
07-000-714432

ENTERED

4173 Ok

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Facility/Site

KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID
10005925

Submittal Status

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name		CAS Number	US EPA SRS Number
Used Lead Acid Batteries		Mixture	
Physical State	Hazardous Material Type		Trade Secret
Liquid	Waste		

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Corrosive		Fire	8 - Corrosives (Liquids and Solids)
Radioactive			Reactive	State Waste Code
			Pressure Release	Liquids with pH < 2
Curies		Yes	Acute Health	
0		Yes	Chronic Health	

Inventory Location and Quantity

Chemical Location		Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room		36	72	gallons
Chemical Location Confidential EPCRA		Largest Container	Annual Waste Amount	
		1.2	229	
Map# (Optional)	Grid# (Optional)	Days on Site		
		365		

Inventory Storage Information

Aboveground Tank	Can	Box		Tank Truck, Tank Wagon
Underground Tank	Carboy	Cylinder		Tank Car, Rail Car
Tank Inside Building	Silo	Glass Bottle	Yes	Other
Steel Drum	Fiber Drum	Plastic Bottle		battery casing, pallet
Plastic/Non-Metallic Drum	Bag	Tote Bin		

Storage Pressure	Storage Temperature
Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS
Sulfuric Acid	7664-93-9	35.00	Yes

Additional Mixture Components

Additional Chemical/Material Description

Additional Chemical Material Information

Printed on 9/6/2013 9:35 AM

Facility/Site

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PINOLE, CA 94564

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Propane			
Common Name		**CAS Number**	**US EPA SRS Number**
Waste Propane		74-98-6	
Physical State	**Hazardous Material Type**		**Trade Secret**
Gas	Waste		

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Flammable Gas	Yes	Fire	2.1 - Flammable Gases
Radioactive			Reactive	**State Waste Code**
		Yes	Pressure Release	Household waste
Curies			Acute Health	
0			Chronic Health	

Inventory Location and Quantity

Chemical Location		Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room		10	20	gallons
Chemical Location Confidential EPCRA		**Largest Container**	**Annual Waste Amount**	
		20	60	
Map# (Optional)	**Grid# (Optional)**	**Days on Site**		
		365		

Inventory Storage Information

Aboveground Tank	Can		Box	Tank Truck, Tank Wagon
Underground Tank	Carboy	Yes	Cylinder	Tank Car, Rail Car
Tank Inside Building	Silo		Glass Bottle	Other
Steel Drum	Fiber Drum		Plastic Bottle	
Plastic/Non-Metallic Drum	Bag		Tote Bin	

Storage Pressure	Storage Temperature
Above Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Liquified Propane gas	74-98-6	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

Below

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Facility/Site

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1500 FITZGERALD DR
PINOLE, CA 94564

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name Waste Flammable Liquids		CAS Number Mixture	US EPA SRS Number
Physical State Liquid	Hazardous Material Type Waste		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Flammable Liquid, Class I-B	Yes	Fire	3 - Flammable and Combustible Liquids
Radioactive		Yes	Reactive	State Waste Code
		Yes	Pressure Release	Unspecified solvent mixture
Curies		Yes	Acute Health	
0		Yes	Chronic Health	

Inventory Location and Quantity

Chemical Location		Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room		33	65	gallons
Chemical Location Confidential EPCRA		Largest Container	Annual Waste Amount	
		65	195	
Map# (Optional)	Grid# (Optional)	Days on Site		
		365		

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
	Steel Drum	Fiber Drum	Plastic Bottle	
Yes	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure	Storage Temperature
Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Waste Flammable Liquids, Unspecified	Mixture	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

California Environmental Reporting System (CERS) | Hazardous Materials Inventory

Facility/Site

KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name: Waste Corrosives - Acidic		CAS Number: Mixture	US EPA SRS Number
Physical State: Liquid	Hazardous Material Type: Waste		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories	DOT Hazard Class
	Corrosive	Fire	8 - Corrosives (Liquids and Solids)
Radioactive		Reactive	State Waste Code
		Pressure Release	Unspecified aqueous solution
Curies		Acute Health	
0		Chronic Health	

Inventory Location and Quantity

Chemical Location	Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room	10	20	gallons
Chemical Location Confidential EPCRA	Largest Container	Annual Waste Amount	
	20	60	
Map# (Optional) / Grid# (Optional)	Days on Site		
	365		

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
	Steel Drum	Fiber Drum	Plastic Bottle	
Yes	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure	Storage Temperature
Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Waste Acidic Corrosives, Unspecified	Mixture	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

Below

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KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name Waste Corrosives - Basic		CAS Number Mixture	US EPA SRS Number
Physical State Liquid	Hazardous Material Type Waste		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories	DOT Hazard Class
	Corrosive	Fire	8 - Corrosives (Liquids and Solids)
Radioactive		Reactive	State Waste Code
		Pressure Release	Unspecified alkaline solution
Curies		Acute Health	
0		Chronic Health	

Inventory Location and Quantity

Chemical Location	Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room	10	20	gallons
Chemical Location Confidential EPCRA	Largest Container	Annual Waste Amount	
	20	60	
Map# (Optional) / Grid# (Optional)	Days on Site		
	365		

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
	Steel Drum	Fiber Drum	Plastic Bottle	
Yes	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure	Storage Temperature
Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Waste Basic Corrosives, Unspecified	Mixture	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

Below

California Environmental Reporting System (CERS) | Hazardous Materials Inventory

Facility/Site

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1500 FITZGERALD DR
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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name: Waste Oxidizers		CAS Number: Mixture	US EPA SRS Number
Physical State: Liquid	Hazardous Material Type: Waste		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Oxidizing, Class 1		Fire	5.1 - Oxidizing Substances
Radioactive		Yes	Reactive	State Waste Code
			Pressure Release	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Curies: 0		Yes	Acute Health	
			Chronic Health	

Inventory Location and Quantity

Chemical Location	Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room	33	65	gallons
Chemical Location Confidential EPCRA	Largest Container: 65	Annual Waste Amount: 195	
Map# (Optional) / Grid# (Optional)	Days on Site: 365		

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
	Steel Drum	Fiber Drum	Plastic Bottle	
Yes	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure: Ambient
Storage Temperature: Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Waste Oxidizers, Unspecified	Mixture	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

ENTERED

416

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California Environmental Reporting System (CERS) | Hazardous Materials Inventory

Facility/Site

KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID
10005925

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name Waste Toxics		CAS Number Mixture	US EPA SRS Number
Physical State Liquid	Hazardous Material Type Waste		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories	DOT Hazard Class
	Toxic	Fire	6.1 - Toxic Substances
Radioactive		Reactive	State Waste Code
		Pressure Release	Aqueous solution with 10% or more total organic residues
Curies 0		Yes Acute Health	
		Yes Chronic Health	

Inventory Location and Quantity

Chemical Location		Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room		33	65	gallons
Chemical Location Confidential EPCRA		Largest Container 65	Annual Waste Amount 195	
Map# (Optional)	Grid# (Optional)	Days on Site 365		

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
	Steel Drum	Fiber Drum	Plastic Bottle	
Yes	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure	Storage Temperature
Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Waste Toxics, Unspecified	Mixture	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

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California Environmental Reporting System (CERS) | Hazardous Materials Inventory

Facility/Site

KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID
10005925

Submittal Status

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name: Waste Aerosols		CAS Number: Mixture	US EPA SRS Number
Physical State: Liquid	Hazardous Material Type: Waste		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Flammable Liquid, Class I-B	Yes	Fire	3 - Flammable and Combustible Liquids
Radioactive			Reactive	State Waste Code
		Yes	Pressure Release	Household waste
Curies: 0			Acute Health	
			Chronic Health	

Inventory Location and Quantity

Chemical Location	Average Daily Amount	Maximum Daily Amount	Units
Hazardous Waste Storage Area/605 Room	33	65	gallons
Chemical Location Confidential EPCRA	Largest Container: 65	Annual Waste Amount: 195	
Map# (Optional) / Grid# (Optional)	Days on Site: 365		

Inventory Storage Information

	Aboveground Tank		Can		Box		Tank Truck, Tank Wagon
	Underground Tank		Carboy		Cylinder		Tank Car, Rail Car
	Tank Inside Building		Silo		Glass Bottle	Yes	Other
	Steel Drum		Fiber Drum		Plastic Bottle		spray cans
Yes	Plastic/Non-Metallic Drum		Bag		Tote Bin		

Storage Pressure: Above Ambient
Storage Temperature: Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS
Waste Aerosol cans, Unspecified	Mixture	100.00	

Additional Mixture Components

Additional Chemical/Material Description

Additional Chemical Material Information

ENTERED

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California Environmental Reporting System (CERS) | Hazardous Materials Inventory

Facility/Site

KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID
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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Propane			
Common Name		**CAS Number**	**US EPA SRS Number**
Propane		74-98-6	
Physical State	**Hazardous Material Type**		**Trade Secret**
Gas	Pure		

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Flammable Gas	Yes	Fire	2.1 - Flammable Gases
Radioactive			Reactive	State Waste Code
		Yes	Pressure Release	
Curies			Acute Health	
0			Chronic Health	

Inventory Location and Quantity

Chemical Location		Average Daily Amount	Maximum Daily Amount	Units
Tool Room, Receiving		99	99	pounds
Chemical Location Confidential EPCRA		**Largest Container**	**Annual Waste Amount**	
		33	0	
Map# (Optional)	**Grid# (Optional)**	**Days on Site**		
		365		

Inventory Storage Information

Aboveground Tank	Can		Box	Tank Truck, Tank Wagon
Underground Tank	Carboy	Yes	Cylinder	Tank Car, Rail Car
Tank Inside Building	Silo		Glass Bottle	Other
Steel Drum	Fiber Drum		Plastic Bottle	
Plastic/Non-Metallic Drum	Bag		Tote Bin	

Storage Pressure	Storage Temperature
Above Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS
Liquified Propane gas	74-98-6	100.00	

Additional Mixture Components

Additional Chemical/Material Description

Additional Chemical Material Information

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California Environmental Reporting System (CERS) | Hazardous Materials Inventory

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Common Name: Floor Stripper		CAS Number: Mixture	US EPA SRS Number
Physical State: Liquid	Hazardous Material Type: Mixture		Trade Secret

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Corrosive		Fire	8 - Corrosives (Liquids and Solids)
Radioactive	Irritant		Reactive	State Waste Code
			Pressure Release	
Curies: 0		Yes	Acute Health	
			Chronic Health	

Inventory Location and Quantity

Chemical Location	Average Daily Amount	Maximum Daily Amount	Units
Janitorial Closet	60	120	gallons
Chemical Location Confidential EPCRA	Largest Container: 5	Annual Waste Amount: 0	
Map# (Optional) / Grid# (Optional)	Days on Site: 365		

Inventory Storage Information

Aboveground Tank	Can	Yes	Box	Tank Truck, Tank Wagon
Underground Tank	Carboy		Cylinder	Tank Car, Rail Car
Tank Inside Building	Silo		Glass Bottle	Other
Steel Drum	Fiber Drum		Plastic Bottle	
Plastic/Non-Metallic Drum	Bag		Tote Bin	

Storage Pressure: Ambient
Storage Temperature: Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS
2-Butoxyethanol	111-76-2	4.00	
Ethylene glycol phenyl ether	122-99-6	1.80	
Potassium Hydroxide	1310-58-3	3.00	
Monoethanolamine	141-43-5	3.00	

Additional Mixture Components

Additional Chemical/Material Description

Additional Chemical Material Information

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Facility/Site

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PINOLE, CA 94564

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Chemical Identification and Physical Properties

Chemical Name			CERS Chemical Library ID
Helium			
Common Name		**CAS Number**	**US EPA SRS Number**
Helium		7440-59-7	
Physical State	**Hazardous Material Type**		**Trade Secret**
Gas	Pure		

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
		Yes	Fire	2.2 - Nonflammable Gases
Radioactive		Yes	Reactive	State Waste Code
		Yes	Pressure Release	
Curies		Yes	Acute Health	
0		Yes	Chronic Health	

Inventory Location and Quantity

Chemical Location		Average Daily Amount	Maximum Daily Amount	Units
Layaway Area		244	488	cubic feet
Chemical Location Confidential EPCRA		Largest Container	Annual Waste Amount	
		244	0	
Map# (Optional)	Grid# (Optional)	Days on Site		
		365		

Inventory Storage Information

Aboveground Tank	Can		Box	Tank Truck, Tank Wagon
Underground Tank	Carboy	Yes	Cylinder	Tank Car, Rail Car
Tank Inside Building	Silo		Glass Bottle	Other
Steel Drum	Fiber Drum		Plastic Bottle	
Plastic/Non-Metallic Drum	Bag		Tote Bin	

Storage Pressure	Storage Temperature
Above Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components
Helium	7440-59-7	100.00		

Additional Chemical/Material Description

Additional Chemical Material Information

Printed on 9/6/2013 9:36 AM

Site Identification

KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564
County
Contra Costa

CERS ID
10005925
EPA ID Number
CAL000018619

Submittal Status

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Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	Yes

Underground Petroleum Storage (UST)

Does your facility own or operate underground storage tanks?	No

Hazardous Waste

Is your facility a Hazardous Waste Generator?	Yes
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	No
Is your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	No
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	No

Additional Information

employees: 86

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553-2233

Ph (925) 335-3200
Fax (925) 646-2073

April 16, 2013

Kmart Corporation
3333 Beverly Rd., B5-362A
Hoffman Estates, IL 60179
Attn: Robyn West

Re: Missing document for:
Site #714432
Kmart #3531
1500 Fitzgerald Dr.
Pinole, CA 94564

In order to be in compliance for the 2013 CUPA submittal, the following document(s) must be completed and returned to this office:

[] Business Activities Form
[] Business Owner/Operator Identification
[] Hazardous Materials Inventory-Chemical Description (One For Each Chemical)
[x] Hazardous Waste Generator Reporting Form
[] Underground Storage Tank Operating Permit Application - Facility Information
[] Underground Storage Tank Certification of Financial Responsibility
[] Aboveground Tank Facility Statement

Please return the above requested forms by mail, fax (925) 646-2073 or email to ccchazmat@hsd.cccounty.us by May 15, 2013

If you have any questions, please contact this office at (925) 335-3200 and ask to speak to a Hazardous Materials Specialist.

Sincerely,

Alexandra McMullen
Specialist Clerk

Encl.

CONTRA COSTA
HEALTH SERVICES

RECEIVED
APR 29 2013
Contra Costa Health
Hazardous Materials

2013 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY/SITE ID: Site #714452 EPA ID: CAL 000018619

Kmart #3531
1500 Fitzgerald Dr.
Pinole, CA 94564

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by March 1, 2013. **Forms postmarked after March 1, 2013 may be subject to a 50% late filing fee.**

- Do not send payments at this time.
- Retain a copy for your records.

Determine the amount of hazardous waste your business generated and shipped offsite during the **2012** calendar year.

Total Tonnage of Hazardous Waste Shipped Offsite During 2012: 0.982 / Tons

ENTERED

PLEASE NOTE: USED OIL IS NO LONGER EXEMPT

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] Date: 4/26/13

Print Name: Robyn A. West

Title: Environmental Specialist Phone # (847) 286-0037

Forms postmarked after March 1, 2013 may be subject to a 50% late filing fee.
- Do not send payments at this time.
- Retain a copy for your records.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-1073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 07/01/13 thru 06/30/14

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #353[illegible]
1500 FITZGERALD DR
PINOLE, CA [illegible]564

OWNER OF RECORD:
[illegible] CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

	Regulated Program(s)	Permit #	Program Record #	Permit Fee Paid
1	HMBP: 1K-[illegible]K LBS [illegible]0+ EMPLOYEES	PT0021938	PRO[illegible]	YES
2	HWG: LESS THAN 5[illegible] TONS/YEAR	PT0025543	[illegible]0386	YES

IMMEDIATELY NOTIFY HAZARDOUS MATERIALS IF THERE ARE CHANGES IN FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES) BY CALLING (925) 335-3200.

THIS IS NOT AN INVOICE

KMART CORPORATION
ROBYN WEST
3333 BEVERLY RD, B5-362A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA
HEALTH SERVICES

Contra Costa Health Services - Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553
Telephone: (925) 335-3200 Fax: (925) 646-2073
WWW.CCHEALTH.ORG/HAZMAT
Randall L. Sawyer, Chief Environmental Health and Hazardous Materials Officer

KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

NOTICE TO COMPLY

May 07, 2014

CUPA Facility ID: 714432
Facility Name: KMART #3531
Business Address: 1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID: 10005925
Business Owner: KMART CORPORATION
Business Operator: KMART CORP

In January 2014, Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) sent KMART #3531 a letter requiring all businesses to submit the 2014 Certified Unified Program Agency (CUPA) information online using the California Environmental Reporting System (CERS). A copy of that letter can be found on our website at: http://cchealth.org/hazmat/pdf/Letter-CUPA-Submittal.pdf.

As of 5/7/2014, the following submittal elements have not been received or accepted by CCHSHMP:

* **FACILITY INFORMATION**
* **HAZARDOUS MATERIALS INVENTORY**
* **EMERGENCY RESPONSE AND TRAINING PLANS**

Instructions for accessing CERS and submitting the 2014 CUPA information using CERS can be found on our website at: http://cchealth.org/hazmat/cers-instructions.php.

In accordance with the Contra Costa County Board of Supervisors Resolution No. 2012/184, a 50% administrative penalty will be assessed to KMART CORPORATION if the submittal elements listed above are not received by CCHSHMP within thirty (30) days following the issuance of a Notice of Violation.

If you have any questions regarding this Notice to Comply or require assistance, please contact a Hazardous Materials Specialist at (925) 335-3200.

Sincerely,

Randall L. Sawyer
Chief Environmental Health and Hazardous Materials Officer
Contra Costa County

CONTRA COSTA
HEALTH SERVICES

2014 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

SITE ID: 714432 EPA ID: CAL000018619

FACILITY NAME: Kmart #3531

ADDRESS: 1500 Fitzgerald Drive, Pinole, CA

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE CHANGED FROM PREVIOUS YEARS.

Forms must be submitted through CERS by March 3, 2014.

Determine the amount of hazardous waste your business generated and shipped offsite during the **2013** calendar year.

ENTERED

Total Tonnage of Hazardous Waste Shipped Offsite During 2013: 1.2090 Tons

PLEASE NOTE: USED OIL IS NO LONGER EXEMPT

Forms submitted after March 3, 2014 may be subject to a 50% late filing fee.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 07/01/14 thru 06/30/15

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

	Regulated Program(s)	Permit #	Program Record #	Permit Fee Paid
1	HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457	PAID
2	HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861	PAID

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

ROBYN WEST
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553-2228

Ph 925-335-3200
Fax 925-646-2073

KMART #3531
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CUPA FACILITY ID: 714432
CERS ID: 10005925
ENVIRONMENTAL CONTACT: Robyn West

December 29, 2014

Subject: Certified Unified Program Agency (CUPA) Submittal for 2015

Dear Kmart Corporation:

All regulated businesses are required to review and submit information regarding the annual Hazardous Materials Business Plan, Hazardous Waste Generator Reporting, Underground Storage Tanks, Aboveground Storage Tanks, and/or California Accidental Release Prevention Program annually (CUPA data). State Law (Assembly Bill 2286) now requires your business to report this information electronically. Contra Costa County requires all facilities to use the California Environmental Reporting System (CERS) to submit this information: http://cers.calepa.ca.gov/.

All regulated businesses must use CERS to submit their 2015 CUPA data between January 1, 2015 and March 2, 2015. **All 2015 CUPA data must be submitted by March 2, 2015.**

As of December 29, 2014, your facility is registered in the following CUPA programs:

HAZARDOUS MATERIALS BUSINESS PLAN PROGRAM
HAZARDOUS WASTE GENERATOR PROGRAM

For your convenience, the reverse side of this letter identifies the required CERS submittal element(s) for each CUPA program.

Assistance with submitting a complete and correct CERS submittal may be obtained by:

1. Visiting our website at: http://cchealth.org/hazmat/
2. Requesting to attend one of the CERS training classes offered by CCHSHMP (see enclosure)

If you have any questions regarding the 2015 CUPA submittal, please contact us at (925) 335-3200.

Sincerely,

Randall L. Sawyer
Chief Environmental Health and Hazardous Materials Officer
Contra Costa County

RECEIVED
FEB 05 2015
Contra Costa Health
Hazardous Materials

CONTRA COSTA
HEALTH SERVICES

2015 CUPA PACKET
HAZARDOUS WASTE GENERATOR REPORTING FORM

SITE ID: 714432 EPA ID: CAL000018619

FACILITY NAME: Kmart 3531

ADDRESS: 1500 Fitzgerald Dr., Pinole, CA 94564

PLEASE READ THE INSTRUCTIONS ON THE BACK BEFORE COMPLETING THIS FORM.
THE INSTRUCTIONS HAVE CHANGED FROM PREVIOUS YEARS.

Please return this completed form along with your CUPA documents to the Hazardous Materials Programs Office by March 2, 2015. **Forms submitted after March 2, 2015 may be subject to a 50% late filing fee.**

- Do not send payments at this time.
- Retain a copy for your records.

Determine the amount of hazardous waste your business generated and shipped offsite during the **2014** calendar year.

ENTERED

Total Tonnage of Hazardous Waste Shipped Offsite During 2014: 0.4305 / Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] Date: 2/5/15

Print Name: Robyn West

Title: Environmental Specialist Phone # (847) 286-0037

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 7/1/2015 thru 6/30/2016

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)		Permit #	Program Record #	Permit Fee Paid
1	HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457	PAID
2	HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861	PAID

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

ROBYN WEST
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist (page 1 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART # 3531	714432	10/9/2015

INSPECTION TYPE: (Routine) Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor Cl I = Major Cl II = Medium / Repeat Minor

EPA ID: CAL000018619

California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 10, §66001 et al
California Health and Safety Code (HSC), Division 20, Chapter 6.5, §25100 et al
Code of Federal Regulations (CFR) Title 40, Chapter 1, Part 260 et al

Disposal Documents Reviewed For Year: 2014

HW Gen Rpt Form On File? ☑ Yes ☐ No — Reported 0.43 tons

Total Annual Tonnage of All Hazardous Waste Generated: 0.264 tons

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
D001	Aerosols, + flammable liquids (110 lbs, 44, 13	157 lbs
D002	Waste oxidizers (28,	28 lbs
D006	toxic liquids (122, 20)	192 lb
122	hypochlorites, + base (30, 12)	42 lbs
241	Non RCRA HW liquid (103)	103 lbs
	UN 1978 Propane (5)	5 lbs

Additional Wastes on Continuation Sheet? ☐ Yes ☑ No

Generator Status:
☐ RCRA-LQG > 1,000 kg/month ☐ CA-LQG > 1,000 kg/month ☐ CA-SQG > 100 to < 1,000 kg/month ☐ CA-CESQG < 100 kg/month ☐ Episodic

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days) ok		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest ok		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest ok		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years ok		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC		
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(ii)	CCR 22 66265.16	Employee training program adequate. ok		
HW20	—	CCR 22 66265.16	Training Documentation Computer based		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency.		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

ENTERED

Facility Rep Initials: MC- CC Hazmat Rep Initials: NM Date: 10/9/15

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist *(page 2 of 2)*

FACILITY NAME	SITE ID	INSPECTION DATE
KMART # 3531	714432	10/9/15

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available. ok		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33 Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space ok		
HW31	40 CFR 265.37, Via 262.34(d)(4)	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition ok		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition ok		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed ok		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections Yes, current		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.201, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.201 Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations:

Total Time for Review and Inspection (in 15 minute increments): 120 ☐ Notice to Comply ☐ Notice of Violation ☑ No Violations Observed

Facility Rep Initials M.E. CC Hazmat Rep Initials NU Date 10/9/15

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Materials Business Plan Inspection/Compliance Checklist

FACILITY NAME	SITE ID	INSPECTION DATE
KMART # 3531	714432	10/9/15

INSPECTION TYPE: (Routine) Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor Cl I = Major Cl II = Medium / Repeat Minor

California Code of Regulations, Title 19, Division 2, Chapter 4, §2620 et al; Title 27, Div 1, Subdiv. 2, Chap. 1, Part II
California Health and Safety Code, Division 20, Chapter 6.95, §25404, §25500-25520

Viol Code	Authority	Requirement	Viol Class	Violation Due Date/ Violation Corrected
BP01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.		
BP02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.		
BP03	19CCR 2729.4	Maximum quantity of all hazardous materials stored on site in reportable quantities are listed in the HMBP.		
BP04	19CCR 2729.5	Original signature on inventory forms for acutely hazardous materials ≥ Threshold Planning Quantities.		
(BP05)	19CCR 2729.2	Adequate submission / completion of site map.	M	11/9/15
BP06	H&SC 25504	Adequate submission / completion / retention of written Emergency Response Plan.		
BP07	27CCR 15210 & H&SC 25404	Full and timely payment of the HMBP program annual fee.		
BP08	H&SC 25503.5	HMBP is maintained on-site or is accessible.		
BP09	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.		
BP10	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.		
BP11	19CCR 2731(c) & H&SC 25503(e)(1)	Procedures in place to mitigate, prevent or abate hazards to persons, property or the environment from a release or threatened release of hazardous materials. **See back for Best Management Practices (BMP).**		
BP12	—	Other:		

See back for Best Management Practices (BMP)

Observation: BP05 The most recently submitted site map is missing elements.
Violation: Adequate completion of site map.
Corrective Action: Submit an updated site map including: fire extinguisher locations, evacuation staging area, loading zones, storm drains, emergency shut off devices and emergency response equipment by 11/9/2015.

ENTERED

Total Time for Review and Inspection (in 15 minute increments): 60 ☑ Notice to Comply ☐ Notice of Violation ☐ No Violations Observed

Facility Rep Initials M.E. CC Hazmat Initials NU Date 10/9/15

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
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WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 Fitzgerald Dr. Pinole, CA	10/9/2015
Contact Name: Robin West	EPA ID: CAL000018619	SITE ID: 714432
Contact Telephone: 847-286 0037		

Program(s): (check all that apply) 1k-10k, 20+ employees

☑ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☑ Hazardous Waste Generator (HW) <5 tons HW	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☑ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization
Maria Caballero	Asst. Manager	KMART

Facility Description/Comments: Unannounced inspection - Retail Sales

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep: Maria Caballero (Consent to inspect given by)	Facility Rep Signature: Maria Caballero	Date: 10/9/15
CC Hazmat Rep: Nick Umemoto	CC Hazmat Signature: NU	Date: 10/9/15

WILLIAM B. WALKER M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553-2228

Ph 925-335-3200
Fax 925-646-2073

KMART #3531
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CUPA FACILITY ID: 714432
CERS ID: 10005925
ENVIRONMENTAL CONTACT: ROBYN WEST

December 28, 2015

Subject: Certified Unified Program Agency (CUPA) Submittal for 2016

As a regulated business, your facility is required to review and submit information regarding the Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage Tanks, Aboveground Petroleum Storage Act, and/or California Accidental Release Prevention Programs annually (CUPA data). State Law requires your business to report this information electronically.

Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) requires the annual CUPA data to be submitted through the California Environmental Reporting System (CERS) (http://cers.calepa.ca.gov/) between **January 1, 2016 and March 1, 2016.**

Based on the 2015 CUPA data submitted by KMART #3531, the following CUPA data submittal elements are required by **March 1, 2016**:

- ☐ **FACILITY INFORMATION**
- ☐ **HAZARDOUS MATERIALS INVENTORY**
- ☐ **EMERGENCY RESPONSE AND TRAINING PLANS**

A 2016 Hazardous Waste Generator Reporting Form is enclosed. This form must be completed and submitted to CCHSHMP by March 1, 2016 as part of the CUPA data submittal if your facility is in the Hazardous Waste Generator Program.

Assistance with submitting a complete CUPA submittal in CERS may be obtained by:

1. Visiting our website at: http://cchealth.org/hazmat/
2. Requesting to attend one of the CERS training classes (see enclosure)

If you have any questions regarding the 2016 submittal in CERS, please contact us at (925) 335-3200.

Sincerely,

Randall L. Sawyer
Chief Environmental Health and Hazardous Materials Officer
Contra Costa County

CONTRA COSTA
HEALTH SERVICES

2016 HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: KMART #3531 **CUPA FACILITY ID:** 714432

CERS ID: 10005925 **EPA ID:** CAL000018619

This form is required to be submitted if your facility had any amount of hazardous waste disposed of from your facility in 2015. Disposal includes picked up by a licensed transporter or taken to a certified collection location. If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2015, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2015 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2015 (calculation guide on back) _____ Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: _____ **Date:** _____

Print Name: _____

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

SUBMITTAL OPTIONS - You may submit this form in one of the following ways:

1. Upload PDF document to your 2016 CERS submittal under **Miscellaneous State Required Documents** in the Facility Information section. (If you are submitting via CERS, no signature is required.)
2. Fax to 925-646-2073
3. Email PDF document to ccchazmat@hsd.cccounty.us
4. Mail to: Hazardous Materials Programs
   4585 Pacheco Blvd., Suite 100
   Martinez, CA 94553

CONTRA COSTA
HEALTH SERVICES

RECEIVED
MAR 02 2016
Contra Costa Health
Hazardous Materials

2016 HAZARDOUS WASTE GENERATOR REPORTING FORM

41432

[redacted]

This form is required to be submitted if your facility had any amount of hazardous waste disposed of from your facility in 2015. Disposal includes picked up by a licensed transporter or taken to a certified collection location. If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2015, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2015 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2015 (calculation guide on back) 1.41 Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: Cynthia M **Date:** 2/22/2016

Print Name: Cynthia Miller

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

SUBMITTAL OPTIONS - You may submit this form in one of the following ways:

1. Upload PDF document to your 2016 CERS submittal under **Miscellaneous State Required Documents** in the Facility Information section. (If you are submitting via CERS, no signature is required.)
2. Fax to 925-646-2073
3. Email PDF document to ccchazmat@hsd.cccounty.us
4. Mail to: Hazardous Materials Programs
   4585 Pacheco Blvd., Suite 100
   Martinez, CA 94553

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 7/1/2016 thru 6/30/2017

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)	Permit #	Program Record #
1 HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457
2 HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

CYNTHIA MILLER
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
HEALTH SERVICES
HAZARDOUS MATERIALS PROGRAMS
4585 Pacheco Boulevard, Suite 100
Martinez, CA 94553-2228
Ph 925-335-3200
Fax 925-646-2073

DATE OF NOTICE: December 30, 2016

KMART #3531
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CUPA FACILITY ID: 714432
CERS ID: 10005925

ENV. CONTACT: CYNTHIA MILLER

PERMIT RENEWAL NOTICE - ACTION REQUIRED BY MARCH 1, 2017

As a regulated business, KMART #3531 is required to review and submit information regarding the Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage Tanks, Aboveground Petroleum Storage Act, and/or California Accidental Release Prevention Programs annually. State Law requires your business to report this information electronically. This can be done in four easy steps.

STEP 1: LOG ON TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)
Go to http://cers.calepa.ca.gov/ and click on "Business Portal Sign In". You will need your CERS user name and password. Once signed in, click the green "Start/Edit Submittal" button.

STEP 2: REVIEW AND EDIT INFORMATION
Click the green "Start" button to the following submittal elements and review/edit all information:

- ☐ **FACILITY INFORMATION**
  NOTE: You must submit the enclosed Hazardous Waste Generator Reporting Form
- ☐ **HAZARDOUS MATERIALS INVENTORY**
- ☐ **EMERGENCY RESPONSE AND TRAINING PLANS**

STEP 3: SUBMIT ALL APPLICABLE SUBMITTAL ELEMENTS
Once all applicable sections in Step 2 are labeled "Ready to Submit", click a green "Submit" button on any submittal element. On the next page, confirm that all applicable elements are checked and click the green "Submit Selected Elements" button.

STEP 4: ENSURE ALL SUBMITTAL ELEMENTS ARE ACCEPTED
You will receive an email from CERS when each submittal element is reviewed. Immediately address any submittal elements that are NOT ACCEPTED by following Steps 1-3 above to edit the submittal based on the "Comments By Regulator".

Assistance with submitting a complete CERS submittal may be obtained by one of the following options:

1. Visiting our website at: http://cchealth.org/hazmat/cers-instructions.php
2. Attend a CERS Drop-In session for personalized assistance (see enclosure).

If you have any questions regarding the 2017 submittal in CERS, please contact us at (925) 335-3200.

CONTRA COSTA
HEALTH SERVICES

2017
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: KMART #3531 **CUPA FACILITY ID:** 714432

CERS ID: 10005925 **EPA ID:** CAL000018619

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2016. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2016, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2016 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2016 (calculation guide on back) _____ Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: _____ **Date:** _____

Print Name: _____ **Phone:** _____

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2017. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2017**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2017**.

CONTRA COSTA
HEALTH SERVICES

RECEIVED
FEB 07 2017
Contra Costa Health
Hazardous Materials

2017
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: KMART #3531 **CUPA FACILITY ID:** 714432

CERS ID: 10005925 **EPA ID:** CAL000018619

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2016. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2016, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2016 calendar year.

ENTERED

Total Tonnage of Hazardous Waste Disposed During 2016 (calculation guide on back) 0.64 Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] **Date:** 2/7/2017

Print Name: James Turney **Phone:** 847-286-3667

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2017. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2017**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2017**.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat
CCCHAZMAT@HSD.CCCOUNTY.US

PERMIT NUMBER: 07-000-714432
CERS ID: 10005925
PERMIT TO OPERATE

Permit Valid 7/1/2017 thru 6/30/2018

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)	Program Record #
1 HMBP: 1K-10K LBS, 20+ EMPLOYEES	PR0049457
2 HWG: LESS THAN 5 TONS/YEAR	PR0053861

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

JAMES TUNNEY
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, California
94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

KMART #3531
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

DATE OF NOTICE: January 02, 2018

CUPA FACILITY ID: 714432
CERS ID: 10005925

ENV. CONTACT: JAMES TUNNEY

PERMIT RENEWAL NOTICE - ACTION REQUIRED BY MARCH 1, 2018

As a regulated business, KMART #3531 is required to review and submit information regarding the Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage Tanks, Aboveground Petroleum Storage Act, and/or California Accidental Release Prevention Programs annually. State Law requires your business to report this information electronically. This can be done in four easy steps.

STEP 1: LOG ON TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

Go to http://cers.calepa.ca.gov/ and click on "Business Portal Sign In". You will need your CERS user name and password. Once signed in, click the green "Start/Edit Submittal" button.

STEP 2: REVIEW AND EDIT INFORMATION

Click the green "Start" button to the following submittal elements and review/edit all information:

- ☐ **FACILITY INFORMATION**

  NOTE: You must submit the enclosed Hazardous Waste Generator Reporting Form
- ☐ **HAZARDOUS MATERIALS INVENTORY**
- ☐ **EMERGENCY RESPONSE AND TRAINING PLANS**

STEP 3: SUBMIT ALL APPLICABLE SUBMITTAL ELEMENTS

Once all applicable sections in Step 2 are labeled "Ready to Submit", click a green "Submit" button on any submittal element. On the next page, confirm that all applicable elements are checked and click the green "Submit Selected Elements" button.

STEP 4: ENSURE ALL SUBMITTAL ELEMENTS ARE ACCEPTED

You will receive an email from CERS when each submittal element is reviewed. Immediately address any submittal elements that are **NOT ACCEPTED** by following Steps 1-3 above to edit the submittal based on the "Comments By Regulator".

Assistance with submitting a complete CERS submittal may be obtained by one of the following options:

1. Visiting our website at: http://cchealth.org/hazmat/cers-instructions.php
2. Attend a CERS online training session (webinar) for guidance (see enclosure).

If you have any questions regarding the 2018 submittal in CERS, please contact us at (925) 335-3200.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND
HAZARDOUS MATERIALS OFFICER

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, California
94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

2018
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: KMART #3531 **CUPA FACILITY ID:** 714432

CERS ID: 10005925 **EPA ID:** CAL000018619

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2017. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2017, this form is still required.

Determine the amount of hazardous waste your business disposed of during the 2017 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2017 (calculation guide on back) _____ Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: _____ **Date:** _____

Print Name: _____ **Phone:** _____

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2018. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2018**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2018**.

Instructions for Completing and Submitting the Hazardous Waste Generator Reporting Form (Reporting Form)

Please read these instructions carefully before completing the Reporting Form. If you have questions regarding the Reporting Form, please contact Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) at (925) 335-3200.

Hazardous waste is defined as any waste that is listed or meets the criteria of toxicity, corrosivity, ignitability, or reactivity as defined by the California Code of Regulations, Title 22, Chapter 11.

Completing the Reporting Form

1. Determine the amount of hazardous waste disposed of by your facility during the 2017 calendar year. Each facility must complete a separate Reporting Form. Hazardous waste manifests, consolidated manifests, and/or receipts will provide you this information.

2. These guideline conversion factors may be used when calculating tonnage:

a) Number of gallons X 0.00417 tons / gallon = Number of tons
b) Number of cubic yards x 1.35 tons / cubic yard = Number of tons
c) Number of pounds / 2000 pounds = Number of tons

3. Enter the total tonnage of hazardous waste disposed of during the 2017 calendar year. If no hazardous waste was disposed in 2017, enter 0.

4. Fill in signature, print name, date, and phone number. If uploading to CERS (California Environmental Reporting System), a signature is not required.

Submitting Options

CERS: Upload pdf of the completed Reporting Form in CERS under 'Miscellaneous State-Required Documents' in the Facility Information submittal element. If there is a previously submitted Reporting Form, click on "Discard" to remove it before uploading the 2018 Reporting Form. Type in 'HWG Reporting Form' in the document title section. Click 'Save & Finish'.

FAX: You may fax the completed Reporting Form to (925) 646-2073.

EMAIL: You may email the completed Reporting Form to ccchazmat@hsd.cccounty.us

MAIL: You may mail the completed Reporting Form to:

Contra Costa Health Services Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100
Martinez CA 94553

Notes:

Businesses producing ANY amount of hazardous waste must submit the Hazardous Waste Generator Reporting Form.

An electronic version of the Reporting Form can be found at:
http://cchealth.org/hazmat/pdf/cers/Hazardous-Waste-Generator-Reporting-Form.pdf

Businesses that collect used oil from the public under the CalRecycle Program have special reporting rules. Please call CCHSHMP at (925) 335-3200 and speak with a Hazardous Materials Specialist for more information.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS OFFICER

RECEIVED
FEB 28 2018
Contra Costa Health Hazardous Materials

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, California
94553-2233
Ph (925) 335-3200
Fax (925) 646-2073

2018
HAZARDOUS WASTE GENERATOR REPORTING FORM

FACILITY NAME: KMART #3531 **CUPA FACILITY ID:** 714432

CERS ID: 10005925 **EPA ID:** CAL000018619

This form must be submitted if your facility produces hazardous waste. You must report **ANY** amount of hazardous waste disposed of from your facility in 2017. Disposal includes hazardous waste picked up by a licensed transporter or taken to a certified collection location.

If your facility is in the Hazardous Waste Generator Program, but no hazardous waste was disposed of in 2017, this form is still required.

ENTERED

Determine the amount of hazardous waste your business disposed of during the 2017 calendar year.

Total Tonnage of Hazardous Waste Disposed During 2017 (calculation guide on back) 2.6 Tons

I hereby certify that this form, including any accompanying statements, is true and correct to the best of my knowledge and belief.

Signature: [signature] **Date:** 2/28/2018

Print Name: James Turney **Phone:** 847-286-3667

INSTRUCTIONS FOR COMPLETING THIS FORM ON BACK

NOTE: COMPLETION OF THIS FORM DOES NOT FULFILL YOUR REPORTING REQUIREMENT FOR 2018. YOU MUST ALSO SUBMIT ONLINE IN THE CERS WEBSITE: http://cers.calepa.ca.gov

The Hazardous Waste Generator Reporting Form is due to Contra Costa Health Services Hazardous Materials Programs on or before **March 1, 2018**. Facilities may be subject to a **50% late fee** if the Hazardous Waste Generator Reporting Form is submitted or postmarked after **March 1, 2018**.

ANNA M. ROTH, RN, MS, MPH
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH & HAZMAT OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
ENVIRONMENTAL HEALTH &
HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Blvd. Suite 100
Martinez, CA 94553

Ph (925) 335-3200
Fax (925) 646-2073
www.cchealth.org/hazmat/

CUPA Facility ID: 714432

KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

NOTICE OF VIOLATION

IMMEDIATE ACTION REQUIRED - PENALTIES MAY BE ASSESSED

March 27, 2018

CUPA Facility ID:	714432	**CERS ID:**	10005925
Facility Name:	KMART #3531	**Business Owner:**	KMART CORPORATION
Business Address:	1500 FITZGERALD DR PINOLE, CA 94564	**Business Operator:**	KMART CORPORATION

Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) sent a letter to all businesses on January 02, 2018 requiring the submittal of the 2018 Certified Unified Program Agency (CUPA) information online using the California Environmental Reporting System (CERS).

VIOLATION: **Failure to submit complete/correct CUPA information to the Local Agency on or before March 01, 2018.**
VIOLATION DEGREE: **Class II**
OBSERVATION: **As of March 27, 2018, the following submittal element(s) have not been received and/or accepted by CCHSHMP:**

* **HAZARDOUS MATERIALS INVENTORY**
  California Health and Safety Code, Sections 25515 and 25515.2

CORRECTIVE ACTION: **Immediately log on to CERS (http://cers.calepa.ca.gov/) and submit the 2018 CUPA submittal element(s) requested above. Instructions for accessing CERS and submitting the 2018 CUPA information can be found on our website at: http://cchealth.org/hazmat/cers-instructions.php.**
CORRECT BY: **April 27, 2018**

In accordance with the Contra Costa County Board of Supervisors Resolution No. 2012/184, a 50% administrative penalty will be assessed to KMART CORPORATION if the submittal elements listed above are not received by CCHSHMP within thirty (30) days following the issuance of a Notice of Violation.

If you have any questions regarding this Notice of Violation or require assistance with your CERS submittal, please contact a Hazardous Materials Specialist at (925) 335-3200.

Sincerely,

Randall L. Sawyer, Chief Environmental Health and Hazardous Materials Officer

7003 1680 0004 0066 4607

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CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

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Res (End		
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714432
KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Sent

Stree
or PO Box No.

City, State, ZIP+4

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

714432
KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B3-348A
HOFFMAN ESTATES, IL 60179

9590 9402 3755 8032 3625 63

2. Article Number (Transfer from service label)

7003 1680 0004 0066 4607

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery 3-30-18

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

RECEIVED
APR 02 2018
Contra Costa Health
Hazardous Materials

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☑ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat
CCCHAZMAT@HSD.CCCOUNTY.US

PERMIT NUMBER: 07-000-714432
CERS ID: 10005925
PERMIT TO OPERATE

Permit Valid 7/1/2018 thru 6/30/2019

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)
1 HMBP: 1K-10K LBS, 20+ EMPLOYEES
2 HWG: LESS THAN 5 TONS/YEAR

Program Record #
PR0049457
PR0053861

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

JAMES TUNNEY
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

ANNA M. ROTH, RN, MS, MPH
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
DEPUTY HEALTH DIRECTOR

MATTHEW S. KAUFMANN
DIRECTOR OF HAZARDOUS MATERIALS PROGRAMS

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
HAZARDOUS
MATERIALS PROGRAMS

4585 Pacheco Boulevard, Suite 100
Martinez, California 94553

Ph (925) 655-3200
Fax (925) 646-2073

ccchazmat@cchealth.org
www.cchealth.org/hazmat/

Public Records Request Form

SR#_____
(office use only)

Date: 01-20-2022

Name: Alvaro Dominguez **Business Name:** Partner Engineering and Science

Address: 1017 22nd Avenue #107 **Phone #:** 650-996-2876

Oakland CA 94606 **E-mail:** alvaro_dominguez@live.com

I am requesting the following public record(s) from Contra Costa Health Services Hazardous Materials Programs.

RECORD(S) REQUESTED: (Use additional form (s) if more space is needed)

Please provide access to copies of Hazardous Materials documents, including petroleum based compounds, associated with the property at 1500 Fitzgerald Drive in Pinole, CA 94564.
I appreciate your help and prompt response.
Thank you,
Alvaro Dominguez

Our records are available electronically. We will send the requested records via email. If PDF files are too large to send via email, we will place the files on a disc or thumbdrive and ask you to choose one of the following methods below.

☐ Please copy the record(s) and send FedEx to the above mailing address.
The cost is $15.00 and is payable by check or credit card (Visa, Discover or M/C).

☑ Please copy the record(s) and notify me when ready for pick up.
The cost is $3.00 and is payable by check or cash (**MUST BE EXACT**).

You may email the completed form to ccchazmat@cchealth.org, or mail or hand deliver to Contra Costa Health Services Hazardous Materials Programs at 4585 Pacheco Blvd., Suite 100, Martinez, CA 94553; or FAX to (925) 646-2073.

Office Use Only:

Date Received_____ Completed_____ ☐No records exist responsive to this request.

Picked Up_____ or FedEx_____ XR_____ Time Spent_____

Rev. August 2020

PAGE 1447 STATE WATER RESOURCES CONTROL BOARD 06/01/88

HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR CONTRA COSTA COUNTY

CONTAINER TYPES: 1,2,3,4,5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
KMART CORPORATION
P. O. BOX 3150 TROY MI 48084

II FACILITY

	MAILING ADDRESS / TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR / TELEPHONE	TYPE OF BUSINESS / NO. OF CONTAINERS
KMART ENTERPRISES 1500 FITZGERALD DRIVE PINOLE CA 94564	1500 FITZGERALD DRIVE PINOLE CA 94564		AUTO REPAIR
CROSS STREET :		(415) 223-2214	1

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: (415) 223-2214 NIGHT: ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 4144 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0000001443 2001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: KENNEDY /1981
C. YEAR INSTALLED : 1981
D. CAPACITY (GALLONS) : 500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: WASTE OIL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 3/16 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : CATHODIC

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
PRESSURE TEST

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12035 WASTE OIL

PROJECT INFORMATION

PROJECT DESCRIPTION

PROPOSED DEMOLITION OF AN EXISTING VACANT RETAIL STRUCTURE AND CONSTRUCTION OF A NEW MIXED-USE DEVELOPMENT WITH 225 DWELLING UNITS UTILIZING THE STATE DENSITY BONUS AND SB 330

DENSITY BONUS CALCULATIONS

BASE DENSITY — 110 (1 UNIT PER 1,000 SF OF LOT AREA)
TOTAL ENTITLED AFFORDABLE PROVIDED — 11%
NUMBER OF AFFORDABLE UNITS PROVIDED — 13
PERCENTAGE DENSITY BONUS AWARDED — 35%
NUMBER OF BONUS UNITS REQUIRED (B) — 40
PROPOSED TOTAL DENSITY BONUS — 224
NUMBER OF CONCESSIONS AWARDED — 1
REQUESTED CITY REDUCTION/CONCESSION — CONCESSION TO ELIMINATE THE COMMERCIAL REQUIREMENT
REQUESTED WAIVERS — 10 WAIVERS (SEE BELOW LISTED)

PINOLE - AFFORDABLE UNIT CALCULATIONS

	NUMBER	% OF BASE	
BASE UNITS	110	100%	
TOTAL AFFORDABLE %	26.7	18%	
VLI UNITS (15% 40% OF TOTAL)	13.5	7%	40%
LI UNITS	13.7	8%	51%

ZONING SUMMARY

	BASE ZONING ALLOWABLE / REQUIRED	ALLOWABLE / REQUIRED W/ 35% DENSITY BONUS	PROPOSED PROJECT W/ WAIVERS AND (1) CONCESSION
ZONING	CMU - COMMERCIAL MIXED USE		
SPECIFIC PLAN DESIGNATION	APPIAN WAY - SERVICE SUB AREA		
PARCEL AREA (ACRES)	5.65	5.65	5.65
DENSITY (UNITS/ACRE)	50	50 + 35%	37.61
NUMBER OF UNITS	110	223	**225**
HEIGHT	6 STORIES / 70	6 STORIES / 90	**6 STORIES / 90**
SETBACK FRONT (NORTH)	0'	0'	67' 0" AVG
SETBACK SIDE (WEST)	0'	0'	77' 0"
SETBACK SIDE (EAST)	0'	0'	147' 3"
SETBACK REAR (SOUTH)	10'	10'	187' 0" AVG
OPEN SPACE	50 SF/UNIT	80 SF/UNIT	80 SF/UNIT
PARKING	SEE PARKING TABLE		
BICYCLE PARKING (1 PER 4 UNITS)	53.5	55.5	180
FAR	NA (SPECIFIC PLAN ELIMINATES FAR AS A CONSTRAINT)		
MAXIMUM GROSS FLOOR AREA	NA	NA	NA
TOTAL GROSS FLOOR AREA	NA	538,484	263,662
RESIDENTIAL FLOOR AREA (49%)	49%	263,842	262,662
COMMERCIAL FLOOR AREA (51%)	51%	274,642	0% W/ CONCESSION

Per the Government Code bonus and density bonus housing development which provides 5 percent of the density bonus units for very low income households, the project shall provide one concession or incentive which results in identifiable and actual cost reductions. This section is purely and solely for the purpose of establishing the identifiable, actual cost reductions to provide for affordable housing costs or constructing the several hundred thousand square feet of commercial floor area that would otherwise be required to meet the 51% commercial floor area requirement.

GOVERNMENT CODE 65915

(d)(1) An applicant for a density bonus pursuant to subdivision (b) may submit to a city, county, or city and county a proposal for the specific incentives or concessions that the applicant requests pursuant to this section, and may request a meeting with the city, county, or city and county. The city, county, or city and county shall grant the concession or incentive requested by the applicant unless the city, county, or city and county makes a written finding, based upon substantial evidence, of any of the following:

(A) The concession or incentive does not result in identifiable and actual cost reductions, consistent with subdivision (k), to provide for affordable housing costs as defined in Section 50052.5 of the Health and Safety Code, or for rents for the targeted units to be set as specified in subdivision (c).

(B) The concession or incentive would have a specific, adverse impact, as defined in paragraph (2) of subdivision (d) of Section 65589.5, upon public health or safety or the physical environment or on any real property that is listed in the California Register of Historical Resources and for which there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact without rendering the development unaffordable to low-income and moderate-income households.

(C) The concession or incentive would be contrary to state or federal law.

(2) The applicant shall receive the following number of concessions or incentives:

(A) One concession or incentive for projects that include at least 10 percent for lower income households, at least 5 percent for persons and families of moderate income in a common interest development.

AREA AND UNIT TABLE

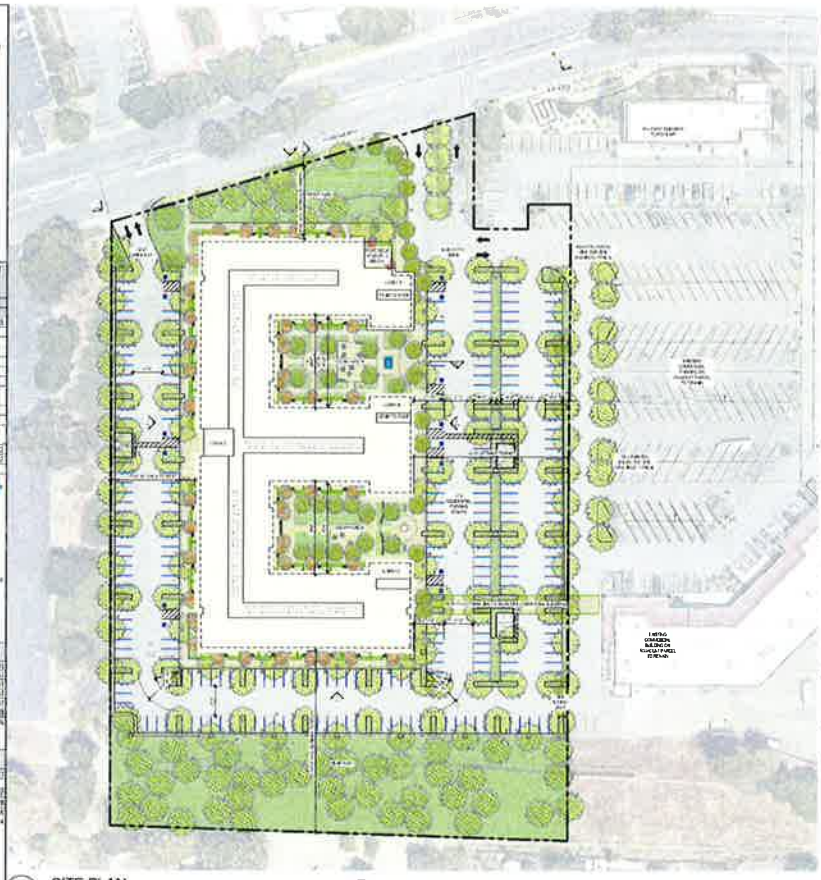
	(SF)	STUDIO	1-BR	2-BR	2-BR/ OFFICE	TOTAL
LEVEL 5	51,470	7	21	14	4	46
LEVEL 4	53,470	6	21	14	4	45
LEVEL 3	53,470	6	21	14	4	45
LEVEL 2	53,470	6	21	14	4	45
LEVEL 1	52,608	5	18	12	4	39
TOTAL	**263,882**	**30**	**102**	**68**	**20**	**225**
		13%	45%	30%	9%	100%
		13%	45%	30%		

PARKING REQUIREMENTS AS A STATE DENSITY BONUS PROJECT

	STUDIO	1-BR	2-BR	2-BR/ OFFICE	TOTAL
DWELLING UNITS	30	102	68	20	225
REQUIRED SPACES PER UNIT - Per 65915(p)(1)	1	1	1.5	1.5	
TOTAL REQUIRED PARKING	30	102	102	30	267
TOTAL PARKING PROVIDED					271
EXCESS PARKING SPACES (NOT SPACES REQUIRED)					4

OPEN SPACE

	UNITS	SF/UNIT	TOTAL
REQUIRED OPEN SPACE	223	80	17,840
PROVIDED OPEN SPACE	**214**	**320**	**70,084**
FRONT YARD OPEN SPACE			11,870
COURTYARD A			9,170
COURTYARD B			9,170
REAR YARD OPEN SPACE			39,117
PRIVATE PATIO	37	80	2960



1 SITE PLAN
1/16" = 1'-0" @ 11x17 1/32" = 1'-0" @ 24x36

TRACHTENBERG ARCHITECTS

3421 Fourth Street
Berkeley, California 94710
510.849.1414
www.TrachtenbergArch.com

REGISTERED ARCHITECT DAVID TRACHTENBERG 5999 STATE OF CALIFORNIA

PINOLE MIXED-USE

1500 FITZGERALD DR, PINOLE, CA 94564

04/07/2021 PLANNING SUBMITTAL
07/30/2021 PLANNING SUBMITTAL
12/07/2021 PROJECT INFORMATION SHEET

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF TRACHTENBERG ARCHITECTS.

JOB # 1824

SHEET

PROJECT INFORMATION SHEET

Property Address: 1516 FITZGERALD DR PINOLE CA 94564-2279

General Information

County:	**CONTRA COSTA**
Parcel # (APN):	**426-391-010-3** Open Map
Owner:	See Full Detail
Mailing Address:	**PO BOX 130339 CARLSBAD CA 92013-0339**
Legal Description:	**T05688 L0010 B**
Use Type:	**SHOPPING CENTERS**
Tax Rate Area:	**006-011**

Full Detail $14.95 Add to Cart

PLEASE NOTE: If a field is empty on this page, there is no data available, and the field will also be empty on the Full Detail property report.

Assessment

Total Value:	**$5,101,307**	Year Assd:	**2021**
Land:	**$4,328,382**	Zoning:	
Structures:	**$772,925**	Use Code:	See Full Detail
Other:		Census Tract:	See Full Detail
% Improved:	See Full Detail	Price/SqFt:	See Full Detail
Exempt Amt:			
HO Exempt:	**N**		

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:	**01/06/2011**			See Full Detail
Document Number:	**3982**			
Document Type:				
Transfer Amount:	**$9**			
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	See Full Detail
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:	**90,370**	Park Type:		Condition:	
Lot Acres:	**6.859**	Spaces:		Site Influence:	
Lot SqFt:	**298,821**	Garage SqFt:		Timber Preserve:	
Year Built:	**1981**			Ag Preserve:	

Effective Year: See Full Detail

**The information provided here is deemed reliable, but is not guaranteed.

Additional reports on this property

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STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

( ) 01 NEW PERMIT (X) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION,INDIVIDUAL OR PUBLIC AGENCY)			PUBLIC AGENCY ONLY ( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL
Kmart Corporation			
STREET ADDRESS	CITY	STATE	ZIP
3100 W. Big Beaver Road	Troy	MI	48084

II FACILITY

FACILITY NAME	DEALER/FOREMAN/SUPERVISOR		
Kmart # 3531	J.W. Cook		
STREET ADDRESS	NEAREST CROSS STREET		
1500 Fitzgerald Drive			
CITY	COUNTY	ZIP	
Pinole	Contra Costa	94564	
MAILING ADDRESS	CITY	STATE	ZIP
3100 W. Big Beaver Road	Troy	MI	48084
PHONE W/AREA CODE	TYPE OF BUSINESS		
415/ 222-5280	( ) 01 GASOLINE STATION (X) 02 OTHER Repair Shop		
NUMBER OF CONTAINERS	RURAL AREAS ONLY :	TOWNSHIP	RANGE	SECTION
One (1)				

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE	NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE
J.W. Cook 415/ 222-5280	J.W. Cook 415/ 222-5280

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK ( ) 04 OTHER: CONTAINER NUMBER Not Available

B. MANUFACTURER (IF APPROPRIATE): N/A YEAR MFG: 81 C. YEAR INSTALLED 1981 ( ) UNKNOWN

D. CONTAINER CAPACITY: 1,000 GALLONS ( ) UNKNOWN E. DOES THE CONTAINER STORE: (X) 01 WASTE ( ) 02 PRODUCT

F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (X) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
( ) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL (X) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (X) UNKNOWN

B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (X) 02 NON-VAULTED ( ) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED (X) 02 SINGLE WALLED ( ) 03 LINED

D. (X) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
( ) 12 UNKNOWN ( ) 13 OTHER:

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
(X) 07 UNLINED ( ) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING (X) 03 CATHODIC PROTECTION ( ) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH (X) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH (X) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

(X) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST ( ) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASS (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (X) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)		PHONE W/AREA CODE
	J.B. Ronan Assistant Controller	313/ 643-1790

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY		CITY CODE	COUNTY CODE
CONTACT PERSON		PHONE W/AREA CODE	
DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

HSC04-070185

UNDERGROUND TANK PROGRAM #14432

Facility Name: K-Mart Enterprises

Facility Address: 1500 Fitzgerald Dr, Pinole CA 94564

DATE	ACTIVITY	INITIALS
8/25/89	Sent Final letter to Superior Lab Svc Inc Agents	
8-14-89	Report dated 8/30/89 REC'd with no Plot Plan on V.O.C. RESULTS. Hank	
9/25/89	Sent LETTER 9/12/89 REQUESTING complete data including results of V.O.C. analysis. Hank	
10-2-89	Spoke w/ Lois Woner Office Mgr of Senco (209) 524-9653 Marilyn Moore is no longer employed there. Lois will check w/ Superior Labs to determine if a VOC sample was ever processed. Lois has a plot plan.	
10/3/89	TALKED w/ Peter Hart of Superior Labs about VOC results - Soil Sample is outdate - advised him that another sample was needed - he will contact Senco. Hank	
12-4-89	TPH(G) RESULTS ARE INADEQUATE - N.D. on analysis Report. Hank	
12-15-89	A3 Status to close.	
11-16-94	File Review	JR

UNDERGROUND TANK PROGRAM

Facility Name:

DATE	ACTIVITY	TIME
7-30-86	Call from Bill Wenger, Gemtel Corp., 523 W. 6th St. #707, Los Angeles 90014 (213) 489-7661. Gemtel is owner, K Mart leases. Sent applic., testers and monitoring ~~plan~~ alternatives. Jan (Computer changed)	
8-15-6	8-4-86 ltr sent to KMart and Gemtel.	
9/18/86	Sent abov to Ron, Petrulek, 925 Commercial St, San Jose 95112	
11/3/86	Bill Wenger called Tank passed test. He's sending mon plan, plot plan & test data	
4-28-89	Terry @ Semco called asked for Removal Package & explained 4-18-89 letter he will file Removal Permit ASAP. Helen	
8/8/89	REMOVED DONE 1K WASTE OIL TANK, TANK in Good Condition, no signs of holes. SEMCO Hauled TANK To Livermore Salvage for scrap. One (1) soil sample taken by Semco for analyses of TPH(G) VOC & TOG by Supervisor of Lab of S.F. Bank	
8-10-89	Changed Status to A2	

Contra Costa County

HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1111 WARD STREET, MARTINEZ, CALIFORNIA 94553
(415) 372-2286

PERMIT NO. UG

SITE ID #

PERMIT TO OPERATE UNDERGROUND STORAGE TANK

☒ 5 YEAR ☐ 1 YEAR ☐ AMENDED ☐ TEMPORARY

DATE ISSUED 09/01/86

DATE EXPIRES 08/31/91

I. OWNER

GEMTEL CORPORATION

523 W. 6TH ST., SUITE 707
LOS ANGELES, CA 90014

PHONE (213) 489-7661

II. FACILITY

K MART ENTERPRISES
1500 FITZGERALD DR
PINOLE, CA 94564

PHONE (415) 223-2214

III. UNDERGROUND TANKS

CONTAINER ID #	(GAL) CAPACITY	SUBSTANCE CONTAINED	MONITORING ALTERNATIVE	YEAR INSTALLED
1	1000	WASTE OIL	7	1981

RECEIVED
JUL 14 1987
Contra Costa Health
Environmental Health

IV. REINSPECTION DUE

TANK TEST DUE 10/31/88 10/31/89 10/31/90 10/31/91

V. THIS PERMIT REQUIRES COMPLIANCE WITH CALIFORNIA ADMINISTRATIVE CODE, TITLE 23 WATERS, CHAPTER 3 WATER RESOURCES CONTROL BOARD, SUBCHAPTER 16 UNDERGROUND TANK REGULATIONS. SIGNATURE OF OWNER / OPERATOR EVIDENCES KNOWLEDGE OF REQUIREMENTS.

PERMIT APPLICANT

Janet Lamarca
ISSUING AGENT

- CHANGE OF OWNERSHIP MUST BE REPORTED IMMEDIATELY.
- THIS PERMIT MAY BE REVOKED FOR CAUSE.
- PERMIT FEE IS TRANSFERABLE.

HSD/EHD CERTIFIED FILE RECEIPT

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS

UNDERGROUND TANK FACILITY INSPECTION

Facility Name: K Mart Enterprises **ID:** 14432

Permit Information is Correct ☒ **Incorrect** ☐ **Changes:**

Pipeline Leak Detector Installed: Yes ☐ No ☒; Not Necessary ☑
(Mechanical) (Suction system)

IF NO: DETECTOR(S) MUST BE INSTALLED AND FACILITY REINSPECTED WITHIN 60 DAYS.

Date last tested: _____ Comments: Detectors must be tested annually.

Electronic Tank/Pipe Annular Space Monitor Required: Yes ☐ No ☒

System Check: Pass ☐ Fail ☐ Installed: Yes ☐ No ☑

IF FAIL: SYSTEM MUST BE REPAIRED AND FACILITY REINSPECTED WITHIN 60 DAYS.

Comments: Document compliance with manufacturer's maintenance recommendations.

Electronic In-Tank Gauge System Installed: Yes ☐ No ☒

Functioning: Yes ☐ No ☐; IF NO: Manually gauge tank until gauging device is functioning correctly. REINSPECTION REQUIRED WITHIN 30 DAYS.

Date last checked : _____ Comments: _____

Inventory Control: Electronic ☐ Reconciliation ☐ Gauging ☒

Adequate: ☐ Not Adequate: ☒ Comments: _____

Copy of Revised Record-keeping to be mailed in by: MAR 15 89 (date) No ☐

REINSPECTION DATE: _____ Yes ☐ No ☒

Hazardous Waste Generator? Yes ☒ No ☐; **Licensed?** Yes ☐ No ☐

Type of waste(s): Waste oil

Additional Remarks: _____

Site Rep: Alex Tumparan **Date:** 2/13/89

Title: Mgr. _____ Signature of Inspector

The Contra Costa County Health Services Department (CCCHSD) has inspected this facility as required by California Health & Safety Code Div. 20, Chapter 6.7, Section 25288. A photocopy of this form will be sent to the facility within 5 days. Any questions regarding this inspection may be directed to:

Hazardous Materials/Occupational Health
1111 Ward St., Martinez, CA 94553 **Phone:** (415) 646-2286

1/618

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS
1111 Ward St., Martinez (415) 646-2286

UNDERGROUND HAZARDOUS SUBSTANCE STORAGE TANK REMOVAL PERMIT AND INFORMATION FORM

FACILITY INFORMATION

Site Name: K MART I.D.# ~~14432~~ 14432

Address: 1500 Fitzgerald Dr
Pinole, CA Phone: 222-5280

Owner Name: K-MART Phone: 818-915-7200

Address: 1184 N. Citrus, Covina, CA 91722

Tank Remover: SCMCO Phone: 209 524-9653
License Type: 449864 A,B,C61

Please schedule an inspection appointment at least 2 days in advance. ALL inspections must be confirmed prior to 9:00 a.m. on the date of removal.

EXPECTED DATE OF REMOVAL (Monday-Friday only): 8-8-89 1:00 PM

TANK INFORMATION:

Number of Tanks to be removed: 1 **@$100 PER TANK FEE = $** 100 00 Pd

Tank(s) registered with State Water Quality Control Board? No ✓ Yes___

Tank(s) to be replaced? No ✓ Yes___

How many new tanks:_____ Have plans been submitted?_____

Tank(s) tested prior to removal? No ✓ Yes___

Tested by:_____ Method:_____

Has there been an indication of leakage? No ✓ Yes___

Explain:_____

Are inventory records available? No ✓ Yes___

Tank(s) used from _____ to 88 for storage of WASTE OIL

Tank(s) capacity: 1000 Tank composition: Steel

PLEASE COMPLETE BOTH SIDES

Upon removal of tanks, soil or water (or both) samples must be taken by a qualified sampler. Soil samples are required from directly beneath each end of the tank below fill material. **A copy of the lab report, including plot plan and chain of custody must be sent to Contra Costa County Health Services Department (CCCHSD) WITHIN 30 DAYS.**

Samples will be taken by: Senco - Chuck Kipen

Samples will be analyzed by: Superior Analytical Lab - ID 220

A tank pit may be re-filled prior to CCCHSD's receiving sample results, however, it may be necessary to re-excavate for additional sampling or aeration.

All tanks must have all product removed. All gasoline tanks must be rinsed until completely purged and dry ice added. Waste oil tanks must an be hauled as hazardous waste after pumpable material is removed. Copies of manifests for any hazardous waste generated on site during tank removal operations, including tanks disposed of as hazardous waste and rinse water, must be sent to CCCHSD.

Tank hauler: Senco Destination: Modesto, CA

Will tank(s) be scrapped: No____ Yes ✓

PLEASE
NOTE: CCCHSD staff will inspect all tanks prior to removal from the site.

A permit from local Fire Protection District must be obtained prior to tank removal. Other agencies may require additional permits. The 1986 Uniform Fire Code and Local Amendment 79.114 require removal of un-used underground storage tanks.

All associated tank piping must be removed; piping that may cause damage to structures if removed may be capped.

Anyone contracting to install or remove an underground tank must have the appropriate State contractor's license.

PERMIT: Indicate recipient of the approved permit:

Att: Chuck

Name: Senco - C.A. Kipen VP Phone: 209 524-9653

Address: 431 W. Hatch Rd Modesto 95351
Street City Zip Code

* * OFFICE USE ONLY *

Issued by: R Olsen Date: 8/8/89

90-day permit valid until: 11-8-89

Rev. 10/88

file

S E M C O
James C. Bateman Petroleum Services Inc.
431 West Hatch Road, Modesto, CA 95351
General Engineering Building Contractor
License No. 449864 A, B, C-61
(209) 524-9653

TO: Contra Costa County
1111 Ward St.
Martinez, CA

Attention:

DATE: March 19, 1990
JOB NAME: K -MART
JOB LOCATION: 1500 Fitzgerald Dr
Pinole, CA

Gentleman:

WE ARE SENDING YOU THE FOLLOWING ITEMS:

RECEIVED
MAR 22 1990
Contra Costa Health
Environmental Health

____ Laboratory Analysis

____ Chain of Custody

____ Hazardous Waste Manifest

XX Tank Disposition Record

These are transmitted as checked below:

____ For approval — Submit____copies for distribution

____ For your use — Resubmit ____copies for approval

____ As required — Return____corrected prints

____ For review and comment — XX FOR YOUR FILES

Remarks: _____

Copy: K MART Corporation
1184 North Citrus Ave.
Covina, CA 91722

Signed: L. Wower

431 West Hatch Road
Modesto, CA 95351
(209) 524-9653

1741 Leslie Street
San Mateo, Ca 94402
(415) 572-8033

S E M C O
James C. Bateman Petroleum Services Inc.
General Engineering Building Contractor
License No. 449864 A, B, C-61

TANK DISPOSITION RECORD

DATE: August 20, 1989

GENERATOR'S NAME: K MART Corporation

ADDRESS: 1500 Fitzgerald Dr.
Pinole, CA

TANK IDENTIFICATION:

ID NUMBER: 89-415

SIZE: 1,000

CONSTRUCTION: Steel

PRODUCT: Waste Oil

DELIVERED TO: SEMCO
431 W. Hatch Rd.
Modesto, CA 95351

I hereby declare that the information above is fully and accurately described above by proper shipping name and that the tank was in proper condition for transport by highway according to applicable government regulations.

L. Wonner
Signature

Op. Mgr
Title

8/30/89
Date

Contra Costa County
Health Services Department
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH / HAZARDOUS MATERIALS

September 12, 1989

Marilyn Moore
SEMCO
431 West Hatch Road
Modesto, CA 95351

Subject: K MART, 1500 FITZGERALD DR., PINOLE, CA

Dear Ms. Moore:

The report Contra Costa County Health Services Department (CCCHSD) received from you concerning the waste oil tank removal at the above site is not acceptable.

There are no results for the VOC I requested and there is no plot plan.

The plot plan must show the dimensions of the tank pit, location in relation to streets, and/or buildings as well as each sample location and depth.

We are returning your report. Please send a completed report to this office as soon as possible. Please note our new address.

Should there be any questions concerning CCCHSD policies or procedures, please call me or Bruce Benike at (415) 646-2286.

Sincerely,

Hank Bunczewski
Hazardous Materials Specialist

Enclosure
HB:no
kmart.hb

4333 Pacheco Boulevard • Martinez, California 94553 • (415) 646-2286

SEMCO
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
431 W. Hatch Rd. Modesto, Calif. 95351
General & Engineering Contractors
(800) 533-9293

#51095

SEMCO - OIL HEAT ENG. DIVISION
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
1806 Leslie St. San Mateo, Calif. 94402
General & Engineering Contractors
(800) 533-9293

CHAIN OF CUSTODY RECORD

PROJECT NAME: K-MART
1500 Fitzgerald Dr, Pinole

SAMPLERS (signature): [signature]
Semco-VP

Station Number	Date	Time	Comp.	Grab	Station Location	Number of Containers	Analysis Required: TPH-D	Benz	VOC-TOG					REMARKS
1VGS4"	8/8	12:01		✓	U.E.8'4"	1	✓		✓					Waste Oil

Relinquished by(signature):	Date / Time	Received by (signature):	Relinquished by(signature):	Date / Time	Received by (signature):
[signature] Company or Agency: Semco	8/8 1:50 pm	Company or Agency:	Company or Agency:		Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received by (signature): Company or Agency:	Relinquished by: Company or Agency:	Date / Time	Received by (signature): Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received for Laboratory by: (signature) [signature]	Date / Time 8/8 1:51 pm	Remarks/Shipping Information: Normal	

AUG 17 RECD

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 51095
CLIENT: SEMCO
CLIENT JOB NO.: K-MART

DATE RECEIVED: 08/08/89
DATE REPORTED: 08/15/89

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range	Diesel Range
1	VE.8'4"	ND<10	ND<10

mg/kg - parts per million (ppm)

Minimum Detection Limit for Gasoline and Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 5%
RPD Diesel = <1%
MS/MSD Average Recovery =82%: Duplicate RPD = 2%

Richard Srna, Ph.D.
Laboratory Director

AUG 17 RECD

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 51095
CLIENT: SEMCO
CLIENT JOB NO.: K-MART

DATE RECEIVED: 08/08/89
DATE REPORTED: 08/15/89

ANALYSIS FOR TOTAL OIL AND GREASE
by EPA Method 503E

LAB #	Sample Identification	Concentration (mg/kg) Total oil & grease
1	VE.8'4"	78

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 20mg/kg

Richard Srna, Ph.D.
Laboratory Director

AUG 17 RECD

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

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by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range	Diesel Range
1	VE.8'4"	ND<10	ND<10

mg/kg - parts per million (ppm)

Minimum Detection Limit for Gasoline and Diesel in Soil: 10mg/kg

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Daily Standard run at 200mg/L: RPD Gasoline = 5%
RPD Diesel = <1%
MS/MSD Average Recovery =82%: Duplicate RPD = 2%

Richard Srna, Ph.D.
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AUG 17 RECD

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1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 51095
CLIENT: SEMCO
CLIENT JOB NO.: K-MART

DATE RECEIVED: 08/08/89
DATE REPORTED: 08/15/89

ANALYSIS FOR TOTAL OIL AND GREASE
by EPA Method 503E

LAB #	Sample Identification	Concentration (mg/kg) Total oil & grease
1	VE.8'4"	78

mg/kg - parts per million (ppm)

Minimum Detection Limit for oil & grease in Soil: 20mg/kg

Richard Srna, Ph.D.
Laboratory Director

SEMCO
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
431 W. Hatch Rd. Modesto, Calif. 95351
General & Engineering Contractors
(800) 533-8293

#51095

SEMCO - OIL HEAT ENG. DIVISION
JAMES C. BATEMAN PETROLEUM SERVICES, INC.
1806 Leslie St. San Mateo, Calif. 94402
General & Engineering Contractors
(800) 533-8293

CHAIN OF CUSTODY RECORD

PROJECT NAME: K-MART
1500 Fitzgerald Dr, Pinole

SAMPLERS (signature): [signature]
Semco - VP

Station Number	Date	Time	Comp.	Grab	Station Location	Number of Containers	Analysis Required: TPH-D		VOC-TOG					REMARKS
1VE8'4"	8/8	12:01		V	V.E. 8'4"	1	V		V					Waste Oil

Relinquished by(signature):	Date / Time	Received by (signature):	Relinquished by(signature):	Date / Time	Received by (signature):
[signature] Company or Agency: Semco	8/8 1:50 pm	Company or Agency:	Company or Agency:		Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received by (signature): Company or Agency:	Relinquished by: Company or Agency:	Date / Time	Received by (signature): Company or Agency:
Relinquished by(signature): Company or Agency:	Date / Time	Received for Laboratory by: (signature) [signature]	Date / Time 8/8 1:51 PM	Remarks/Shipping Information Normal	

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000018619 | Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Knurt 1500 Fitzgerald Pinole CA

4. Generator's Phone: 415 222-5208

A. State Manifest Document Number: 87555864

B. State Generator's ID: CAC000018619

5. Transporter 1 Company Name: Allied Petroleum

6. US EPA ID Number: CAD981067512 8

C. State Transporter's ID: 005134

D. Transporter's Phone: (209) 576-8500

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Refineries Service 13331 Hwy 33 Patterson CA

10. US EPA ID Number: CAD083168728

G. State Facility's ID: CAD083168728

H. Facility's Phone: 800-874-4444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste water + Rinsate NA 9189	1	TT	40	G	State 223 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: 90% Water + Rinsate 10% oil

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: LUIS LUCNER | Signature: Luis Lucner | Month Day Year: 08 01 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Colin Kelley | Signature: Colin Kelley | Month Day Year: 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR

TRANSPORTER

FACILITY

DHS 8022 A (1/87)
PA 8700—22
Rev. 9-86) Previous editions are obsolete.

YELLOW: GENERATOR RETAINS

INSTRUCTIONS ON THE BACK

431 W. Hatch Road
Modesto, California 95351

Telephone
209-524-96

SEMCO

General Engineering Building Contractor
License No. 449864 A, B, C-61
Environmental Services Division
Tank Destruction Certification

This is to certify that SEMCO, Inc., has in accordance with applicable local, state, and federal rules and regulations decontaminated and properly disposed of the following storage tank(s):

Excavation Location:

K MART #3531
1500 Fitzgerald Drive
Pinole, California

Tank Identification:

Identification Number	14932
Size	1000 gallon
Construction	Steel
Product	Waste Oil

Transporter:

SEMCO
431 West Hatch Road
Modesto, CA 95351

Decontamination Process: Decontaminated on site using "Triple Rinse Process". Residual to be disposed of as Class 1 hazardous waste. Clean tank delivered to SEMCO to be reduced to prepared scrap 18" x 36" for recycling via Livermore Auto Salvage.

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a program designed to assure that qualified personnel properly decontaminated and disposed of the above noted tank(s). Based on my inquiry of the person or persons who managed the program, or those persons directly responsible for completion of the program assignments, the above information is true, accurate and complete to the best of my knowledge and belief.

Signature	Title	Date
Sharon Hamilton	Secretary	8/30/89

Contra Costa County
Health Services Department
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH / HAZARDOUS MATERIALS

file

March 20, 1990

Mr. Mike Payne
Western Reg. Field Office
c/o K Mart 4114
5400 Auburn Blvd.
Sacramento, CA 95841

Dear Mr. Payne:

In response to your request for verification by Contra Costa County Health Services Department (CCCHSD) of compliance with State and County regulations concerning the removal of underground waste oil storage tank at K Mart, 1500 Fitzgerald Dr., Pinole, a file review has been completed.

CCCHSD records indicate that the required permits were obtained and the removal witnessed by CCCHSD. A soil sample was analyzed and the results provided to CCCHSD. The levels of total petroleum hydrocarbons as gas (TPH-G) or diesel (TPH-D) were below the minimum detection limit. A concentration of 78 ppm (parts per million) of total oil and grease was found in the sample.

CCCHSD is satisfied that this very minor contamination will not significantly impact the future use of the tank pit area. Based on present information, CCCHSD will not require additional investigation at this site.

Although CCCHSD does not speak for the Regional Water Quality Control Board, based on past experience it is unlikely that any additional concerns will be raised.

Sincerely,

Jan Lammer

Jan Lammer, Asst. Manager
Underground Tank Program

JL:no

cc: SEMCO

4333 Pacheco Boulevard • Martinez, California 94553 • (415) 646-2286

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
KMART INTERNATIONAL TIM FERRELL 3100 W BIG BEAVER RD TORY MI 48084-3163	KMART KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☐ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2005

Expiration Date 06/30/2006

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
DIRECTOR

Sue Loyd

HAZARDOUS MATERIALS PROGRAMS
4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

CONTRA COSTA HEALTH SERVICES

INSPECTION COVER SHEET

Facility Name: KMart #3531

Address: 1500 Fitzgerald Drive

City: Pinole State: CA Zip: 94564

EPA I.D. Number: CAL000018619 Site I.D. No.: 714432

Contact: Ms Ramirez Title: Manager

Phone Number: (925) 510 222-5200 Inspection Date(s): 09/08/05

Program(s): (check all that apply)

- X Hazardous Materials Release Response Plan
- X Hazardous Waste Generator
- __ Underground Storage Tank (UST)
- __ Aboveground Petroleum Storage Tank (AST)
- __ Tiered Permitting
- __ Green Business
- __ Clean Water
- __ Cal/ARP

REPRESENTATIVES PRESENT:

Name	Title	Organization
Ms Ramirez	Manager	KMART
Sue Loyd	HMS	CCHS

Additional Comments:

EPA ID No. -OL
Please submit Contingency plan + train employees and document training

This report may identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC) or the California Code of Regulations (CCR). The Violations may be described in more detail on an attached inspection sheet.

Failure to correct observed violations within the scheduled period provided may result in Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) citing you for continuing and/or additional violations. Issuance of this Inspection Report does not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted.

Doris Ramirez 9-08-05 Sue A Loyd 9/08/05

Consent to inspect given by — Date — Hazardous Materials Specialist — Date

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

WILLIAM B. WALKER, M. D.
HEALTH SERVICES DIRECTOR
LEWIS G. PASCALLI, JR., ESQ.
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

HAZARDOUS WASTE GENERATOR INSPECTION

Generator Name: Kmart #3531 Site I.D. Number 714432

Program Status: ☑Active ☐Inactive ☐RCRA-SQG ☐RCRA-LQG ☐Non-RCRA ☐None

Inspection Type: ☑Routine ☐Follow-up ☐Complaint ☐Joint ☐Multi-media ☐Referred to: _____

VIOLATIONS* (Title 22 California Code of Regulations/Chapter 6.5 California Health and Safety Code)

General Requirements

__	Treatment, Storage, Disposal	66262.10
__	Hazardous Waste Determination	66262.11
__	EPA Identification Number OK	66262.12
__	Accumulation Time	66262.34
__	Use of Hazardous Waste Manifests	66262.23

Record-Keeping & Reporting

__	Disposal Documentation on File OK	66262.40
__	Biennial Report on File/Submittal	66262.40-41
__	Waste Analysis on File	66262.40
__	Exception Reporting	66262.42

Hazardous Waste Handler Training

__	Employee Training Program	66265.16
__	Training Documentation	66265.16
✓	Contingency Plan	66265.52-56

Facility Operation

__	Maintenance & Operation	66265.31
__	Required Equipment	66265.32
__	Equipment Maintenance & Testing	66265.33
__	Communications or Alarm System	66265.34
__	Required Aisle Space	66265.35
__	Emergency Response Agencies	66265.37

Use & Management of Containers

__	Hazardous Waste Labels	66262.34
__	Container Condition	66265.171
__	Container Compatibility	66265.172
__	Container Management	66265.173
__	Weekly Area Inspections	66265.174
__	Buffer zone for Special Wastes	66265.176
__	Separation of Incompatibles	66265.177

Hazardous Waste Storage Tanks

__	Secondary Containment	66265.193
__	Spill Prevention	66265.194
__	Documented Daily Inspections	66265.195
__	Leaking or Unfit Tanks Systems	66265.196
__	Ignitable or Reactive Waste	66265.198

Miscellaneous

__ Source Reductions (SB 14)
__ On-site Recycling Notifications
__ On-site Recycling Activities

Other: _____

*See back of page for regulatory citations

☐Green Business Program candidate

Waste Code	Hazardous Waste Stream	Annual Quantity (Tons)
	Used lead acid batteries	≈ 20-30 batteries/yr
D001/331	Waste Aerosol	≈ 100 lbs/yr
221	Paint	≈ 300-350 gals/yr
D001/002 1201	Waste oxidizing liquid (sodium hypo)	≈ 20-30 gals/yr

Total Annual Tonnage of Hazardous Waste Generated _____ ☐**No Violations Observed**

Violations/Corrections

Please complete contingency plan, train employees and submit doc. of training

CCHS will send labels

Violations must be corrected by: Dec 1, 2005 **Violation Summary:** ☐Class I ☐Class II ☐Minor

Site Representative's Signature 'OR. Date 9-8-05 Specialist's Signature [signature] Date 09/08/05

Total Time for Review and Inspection (in 15 minute increments): 1.0 Page 2 of 2

CONTRA COSTA
HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
SEARS HOLDINGS CORPORATION MICHAEL OLSEN 3333 BEVERLY RD, B5-337A HOFFMAN ESTATES IL 60179	SEARS HOLDINGS CORPORATION KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2007

Expiration Date 06/30/2008

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility: KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.

* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR
RANDALL L. SAWYER
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

INSPECTION COVER SHEET

Facility Name K-Mart
Address 1500 Fitzgerald Dr
City Pinole State CA Zip 94564
EPA I.D. Number CAL000018619 Site I.D. No. 714432
Contact Oliver Perkins Title Loss Prevention Coach
Phone Number [redacted] 510 2275280 Inspection Date(s) 8-13-07

Program(s): (check all that apply)

- __ Hazardous Materials Release Response Plan
- X Hazardous Waste Generator
- __ Underground Storage Tank (UST)
- __ Aboveground Petroleum Storage Tank (AST)
- __ Tiered Permitting
- __ Green Business
- __ Clean Water
- __ Cal/ARP

REPRESENTATIVES PRESENT:

Name	Title	Organization
Dena Hutchin	Haz Mat Spec	CCHS
Oliver Perkins	Loss Prevention	K-Mart

Additional Comments:

Receipts/manifests O.K.
Emergency plan O.K.
Storage & labelling O.K.
Training records O.K.

This report may identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC) or the California Code of Regulations (CCR). The Violations may be described in more detail on an attached inspection sheet.

Failure to correct observed violations within the scheduled period provided may result in Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) citing you for continuing and/or additional violations. Issuance of this Inspection Report does not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted.

Consent to inspect given by — Date 8-13-07
Hazardous Materials Specialist — Date 8-13-07

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

WILLIAM B. WALKER, M. D.
HEALTH SERVICES DIRECTOR

LEWIS G. PASCALLI, JR., ESQ.
DIRECTOR

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

CONTRA COSTA HEALTH SERVICES

HAZARDOUS WASTE GENERATOR INSPECTION

Generator Name: K-Mart Site I.D. Number 774432

Program Status: ☒Active ☐Inactive ☐RCRA-SQG ☐RCRA-LQG ☐Non-RCRA ☐None

Inspection Type: ☒Routine ☐Follow-up ☐Complaint ☐Joint ☐Multi-media ☐Referred to:_____

VIOLATIONS* (Title 22 California Code of Regulations/Chapter 6.5 California Health and Safety Code)

General Requirements

__	Treatment, Storage, Disposal	66262.10
__	Hazardous Waste Determination	66262.11
__	EPA Identification Number	66262.12
__	Accumulation Time	66262.34
__	Use of Hazardous Waste Manifests	66262.23

Record-Keeping & Reporting

__	Disposal Documentation on File	66262.40
__	Biennial Report on File/Submittal	66262.40-41
__	Waste Analysis on File	66262.40
__	Exception Reporting	66262.42

Hazardous Waste Handler Training

__	Employee Training Program	66265.16
__	Training Documentation	66265.16
__	**Contingency Plan**	66265.52-56

Facility Operation

__	Maintenance & Operation	66265.31
__	Required Equipment	66265.32
__	Equipment Maintenance & Testing	66265.33
__	Communications or Alarm System	66265.34
__	Required Aisle Space	66265.35
__	Emergency Response Agencies	66265.37

Use & Management of Containers

__	Hazardous Waste Labels	66262.34
__	Container Condition	66265.171
__	Container Compatibility	66265.172
__	Container Management	66265.173
__	Weekly Area Inspections	66265.174
__	Buffer zone for Special Wastes	66265.176
__	Separation of Incompatibles	66265.177

Hazardous Waste Storage Tanks

__	Secondary Containment	66265.193
__	Spill Prevention	66265.194
__	Documented Daily Inspections	66265.195
__	Leaking or Unfit Tanks Systems	66265.196
__	Ignitable or Reactive Waste	66265.198

Miscellaneous

__ Source Reductions (SB 14)
__ On-site Recycling Notifications
__ On-site Recycling Activities

Other:

*See back of page for regulatory citations

☐Green Business Program candidate

Waste Code	Hazardous Waste Stream	Annual Quantity (Tons)	
D011/331	Waste aerosols	120 lbs .06	1.8 T
291	Latex paint	375 gall	
D011/123	Waste oxidizing liquid	20 gall .07	
791	Lead acid batteries	60 units .06 T	

Total Annual Tonnage of Hazardous Waste Generated < 5T ☒**No Violations Observed**

Violations/Corrections

Violations must be corrected by:_____ **Violation Summary:** ☐Class I ☐Class II ☐Minor

Site Representative's Signature [signature] Date 8-13-07 Specialist's Signature DA Date 8-13-07

Total Time for Review and Inspection (in 15 minute increments) 1:15 Page 2 of 2

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS

4333 Pacheco Boulevard
Martinez, California
94553-2229
Ph (925) 646-2286
Fax (925) 646-2073

INSPECTION COVER SHEET

Facility Name K Mart #3531

Address 1500 Fitzgerald Dr.

City Pinole State CA. Zip 94564

EPA I.D. Number CAL 000018619 Site I.D. No. 744432

Contact Oliver Perkins Title Loss Prevention Mgr.

Phone Number 510-222-5280 Inspection Date(s) 12/4/07

Program(s): (check all that apply)

- x Hazardous Materials Release Response Plan
- __ Hazardous Waste Generator
- __ Underground Storage Tank (UST)
- __ Aboveground Petroleum Storage Tank (AST)
- __ Tiered Permitting
- __ Green Business
- __ Clean Water
- __ Cal/ARP

REPRESENTATIVES PRESENT:

Name	Title	Organization
Charles Rupert	Loss Prevention Agent	K Mart
Elaine Glin	Haz Mat Spec.	Contra Costa

Additional Comments: K Mart is a department store

This report may identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC) or the California Code of Regulations (CCR). The Violations may be described in more detail on an attached inspection sheet.

Failure to correct observed violations within the scheduled period provided may result in Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) citing you for continuing and/or additional violations. Issuance of this Inspection Report does not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted.

Charles Rupert 12/4/07 Elaine C Glin 12/4/07

Consent to inspect given by Date Hazardous Materials Specialist Date

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

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DIRECTOR

CONTRA COSTA
HEALTH SERVICES

HAZARDOUS MATERIALS PROGRAMS
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94553-2229
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Fax (925) 646-2073

ENTERED

HAZARDOUS MATERIALS RELEASE RESPONSE & INVENTORY PROGRAM
BUSINESS PLAN VALIDATION & SITE INSPECTION REPORT

Facility Name: K Mart # 3531 Site I.D. Number 714432

Program Status: ✓ Active ☐ Inactive ☐ Referred to _____

Inspection Type: ✓ Routine ☐ Follow-up ☐ Complaint ☐ Joint ☐ Multi-media

General Business Plan Requirements
(CCR Sect. 2729.1 & HSC Sect. 25503.5)
__Business Plan Submitted
__Business Plan by Due Date

Owner/Operator Identification Page
(CCR Sect. 2729.2(a)(1) & HSC Sect. 25503.3(a))
__Reporting Period
__Business Information
__Owner Information
__Emergency Contact Information
__Extremely Hazardous Materials
__Number of Employees
__Total Pounds of Hazardous Materials

Chemical Description Page
(CCR Sect. 2729.2(a)(2) & HSC Sect. 25503.3(a) & 25509)
__Chemical Location
__Fire Code Classes
__Type
__Physical State
__Federal Hazard Categories
__State Waste Code
__Days on Site
__Largest Container
__Units
__Maximum Daily Amount
__Annual Waste Amount
__Storage Container
__Storage Pressure
__Storage Temperature
__Hazardous Components
__Conversion to Pounds
__All Hazardous Materials, greater than threshold quantities, reported

Site Layout & Facility Diagrams
(CCR Sect. 2729.2(a)(3) & HSC Sect. 25517.5(a); Sect. 25518)
__Site Layout & Facility Diagram Submitted
__Details Complete and Accurate

Emergency Response & Evacuation Plan
(CCR Sect. 2731 & HSC Sect. 25504(b))
__Emergency Response/Evacuation Plan
__Notification & Alarm Procedures Submitted
__Evacuation Procedures
__Emergency Procedures
__Emergency Equipment
__Emergency Response Procedures
__Other

Employee Training Requirements
(CCR Sect. 2732 & HSC Sect. 25504(c))
__Training Plan Submitted
__Training Conducted & Documented
__Other

Enforcement Action (HSC Sect. 25514-25516.2)
☐ Informal ☐ Administrative ☐ Civil ☐ Criminal

Violations/Corrections

Per Dena Hutchin's inspection 8/24/07
all records & plans okay

Violations Must Be Corrected By: _____ ✓ **No Violations Observed**

Site Representative's Signature [signature] Date 12/4/07 Specialist's Signature [signature] Date 12/4/07

Total Time for Review and Inspection (in 15-minute increments): 4 units

• Contra Costa Alcohol and Other Drugs Services • Contra Costa Emergency Medical Services • Contra Costa Environmental Health • Contra Costa Health Plan •
• Contra Costa Hazardous Materials Programs • Contra Costa Mental Health • Contra Costa Public Health • Contra Costa Regional Medical Center • Contra Costa Health Centers •

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
SEARS HOLDINGS CORPORATION MICHAEL OLSEN 3333 BEVERLY RD, B5-337A HOFFMAN ESTATES IL 60179	KIRK HAYES KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2008

Expiration Date 06/30/2009

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4333 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
KMART CORPORATION MICHAEL OLSEN 3333 BEVERLY RD, B5-362A HOFFMAN ESTATES IL 60179	KMART CORPORATION KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

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Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

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* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

CONTRA COSTA
HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Materials Business Plan Inspection/Compliance Checklist

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	12 AUG 2010

INSPECTION TYPE: (Routine) / Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor CI I = Major CI II = Medium / Repeat Minor

California Code of Regulations, Title 19, Division 2, Chapter 4, §2620 et al; Title 27, Div 1, Subdiv. 2, Chap. 1, Part II
California Health and Safety Code, Division 20, Chapter 6.95, §25404, §25500-25520

Viol Code	Authority	Requirement	Viol Class	Violation Due Date/ Violation Corrected
BP01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.		
BP02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.		
BP03	19CCR 2729.4	Maximum quantity of all hazardous materials stored on site in reportable quantities are listed in the HMBP.		
BP04	19CCR 2729.5	Original signature on inventory forms for acutely hazardous materials ≥ Threshold Planning Quantities.		
BP05	19CCR 2729.2	Adequate submission / completion of site map.		
BP06	H&SC 25504	Adequate submission / completion / retention of written Emergency Response Plan.		
BP07	27CCR 15210 & H&SC 25404	Full and timely payment of the HMBP program annual fee.		
BP08	H&SC 25503.5	HMBP is maintained on-site or is accessible.		
BP09	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.		
BP10	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.		
BP11	19CCR 2731(c) & H&SC 25503(e)(1)	Procedures in place to mitigate, prevent or abate hazards to persons, property or the environment from a release or threatened release of hazardous materials. **See back for Best Management Practices (BMP).**		
BP12	—	Other:		

See back for Best Management Practices (BMP)

Observation:

FACILITY HAS PROPANE AND HELIUM. FACILITY HAS EMERGENCY RESPONSE PLAN. TRAINING IS CONDUCTED MONTHLY.

Total Time for Review and Inspection (in 15 minute Increments): 4 ☒ No Violations Observed

Facility Rep Initials TS CC Hazmat Initials OL Date 12 AUG 2010

CONTRA COSTA HEALTH SERVICES

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INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 FITZGERALD DRIVE PINOLE	12 AUG 2010
Contact Name: LINDA JABER Contact Telephone: 510-222-5280	EPA ID: CAL000018619	SITE ID: 714432

Program(s): (check all that apply)

☒ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☒ Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☒ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization
TONY GUTIERREZ	MANAGER	KMART
LINDA JABER	MANAGER	KMART
DEVRA LEWIS	HMS	CCHSHMP

Facility Description/Comments: SCHEDULED INSPECTION. FACILITY GENERATES HAZARDOUS WASTE FROM BROKEN CONTAINERS AND HAS HELIUM FOR BALLOONS AND PROPANE FOR FORKLIFTS. WENT OVER INSPECTION WITH MR GUTIERREZ AND MS. JABAR

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep: TONY GUTIERREZ Consent to inspect given by	Facility Rep Signature: [signature]	Date: 8/12/10
CC Hazmat Rep: DEVRA LEWIS	CC Hazmat Signature: Devra Lewis	Date: 12 AUG 2010

CONTRA COSTA HEALTH SERVICES

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Hazardous Waste Inspection/Compliance Checklist (page 1 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	12 AUG 2010

INSPECTION TYPE	VIOLATION CLASSIFICATIONS	EPA ID
(Routine) / Follow-Up / Other	M = Minor CI I = Major CI II = Medium / Repeat Minor	CAL000018619

California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 10, §66001 et al
California Health and Safety Code (HSC), Division 20, Chapter 6.5, §25100 et al
Code of Federal Regulations (CFR) Title 40, Chapter 1, Part 260 et al

Disposal Documents Reviewed For Year:	HW Gen Rpt Form On File?	Total Annual Tonnage of All Hazardous Waste Generated:
2009	☒ Yes ☐ No	1.22 T

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
331, D001, D035, D039	AGED SURPLUS, WASTE AEROSOL	0.7 T
141, D001, D035, D039, D006	WASTE OXIDIZER	0.2 T
214, D001	WASTE FLAM LIQUID	0.2 T
791, D002	PH < 2	0.01 T
123	WASTE CORROSIVE	0.1 T
291	LATEX WASTE	0.01 T
	Additional Wastes on Continuation Sheet? ☐ Yes ☒ No	

Generator Status:
☐ RCRA-LQG > 1,000 kg/month ☐ CA-LQG > 1,000 kg/month ☐ CA-SQG > 100 to < 1,000 kg/month ☒ CA-CESQG < 100 kg/month ☐ Episodic LQG

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 66262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days)		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC	M	12 SEPT 10
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(iii)	CCR 22 66265.16	Employee training program adequate.		
HW20	—	CCR 22 66265.16	Training Documentation		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

ENTERED

Facility Rep Initials	CC Hazmat Rep Initials	Date
RS	DL	12 AUG 2010

CONTRA COSTA HEALTH SERVICES

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Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	12 AUG 2010

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available.		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33(c) Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space		
HW31	—	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.34, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.20(c) Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations: CLEAN HAZARDOUS WASTE STORAGE AREA. EXCELLENT LABELING. DOCUMENTATION OF WEEKLY INSPECTIONS.
HW13- FACILITY MANIFESTS DO NOT HAVE DESIGNATED FACILITY OPERATOR SIGNATURES. THOSE COPIES MAY BE GOING TO KMART HQ IN ILLINOIS. FACILITY MUST GET COPIES FROM HQ AND PROVIDE TO DTSC IN AN EXCEPTION REPORT. PROVIDE DOCUMENTATION OF FOLLOW UP TO CCHS HMP BY 12 SEPT 2010

Total Time for Review and Inspection (in 15 minute Increments): 6 ☐ No Violations Observed

Facility Rep Initials [illegible] CC Hazmat Rep Initials OK Date 12 AUG 2010

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist *(page 1 of 2)*

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	Aug 18, 2010

INSPECTION TYPE	VIOLATION CLASSIFICATIONS	EPA ID
Routine (Follow-Up) Other	M = Minor CI I = Major CI II = Medium / Repeat Minor	CAL000018619

Disposal Documents Reviewed For Year:	HW Gen Rpt Form On File? ☐ Yes ☐ No	Total Annual Tonnage of All Hazardous Waste Generated:

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
	Additional Wastes on Continuation Sheet? ☐ Yes ☐ No	

Generator Status:
☐ RCRA-LQG > 1,000 kg/month ☐ CA-LQG > 1,000 kg/month ☐ CA-SQG > 100 to < 1,000 kg/month ☐ CA-CESQG < 100 kg/month ☐ Episodic LQG

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 66262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days)		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC		CORRECTED 18 AUG 2010
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(ii)	CCR 22 66265.16	Employee training program adequate.		
HW20	—	CCR 22 66265.16	Training Documentation		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency.		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

Facility Rep Initials	CC Hazmat Rep Initials	Date
Mailed	DL	18 Aug 2010

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
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Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART	714432	18 AUG 2010

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available.		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33(c) Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space		
HW31	—	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.34, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.20 (c) Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations: ON 17 AUGUST 2010, KMART FAXED COPIES OF MANIFESTS THAT SHOWS THEY RECEIVED SIGNED COPIES FROM THE DESIGNATED FACILITY. THIS CORRECTS THE VIOLATION CITED DURING THE 12 AUGUST 2010 INSPECTION.

CCHSHMP STAFF WILL CONTINUE TO WORK WITH DTSC TO DETERMINE WHY DTSC'S HAZARDOUS WASTE TRACKING SYSTEM DOES NOT REFLECT THE LAST 2 YEARS OF MANIFESTS SENT IN TO DTSC.

Total Time for Review and Inspection (in 15 minute increments): 4 | ☒ No Violations Observed

Facility Rep Initials Mailed | CC Hazmat Rep Initials OL | Date 18 AUG 2010

CONTRA COSTA HEALTH SERVICES

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Telephone (925) 335-3200 FAX (925) 646-2073
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WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 FITZGERALD DRIVE PINOLE	18 AUG 2010
Contact Name LINDA JABER	EPA ID	SITE ID
Contact Telephone 510-222-5280	CAL000018619	714432

Program(s): (check all that apply)

☒ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☒ Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☒ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization

Facility Description/Comments: FOLLOW UP TO 12 AUG 2010 INSPECTION.

ENTERED

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep _____ Consent to inspect given by	Facility Rep Signature Mailed	Date
CC Hazmat Rep DEVRA LEWIS	CC Hazmat Signature Devra Lewis	Date 18 AUG 2010

Fax Cover Letter

Date: 8-17-2010

Send to: **Devra Lewis** **Hazardous Materials Specialist**	From: Oliver Perkins Loss Prevention Manager
Attention: **Krista Fryer**	Date: 8-17-2010
Office Location: Contra Costa County Health Services 4585 Pacheco Blvd., Suite 100 Martinez, CA 94553	Office Location: #3531 Kmart Pinole, CA.
(925) 335-3222 direct **(925) 646-2073 fax**	Office: 510-222-5280 Cell: 510-290-8939 Email Address: perkonthemove1@aol.com lp3531@searshc.com

Re: Waste Manifest

Pages faxed are (4) including the cover letter.

Please email me to confirm that you have received this fax.

PLEASE ENTER MANIFESTED WEIGHTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000018619
2. Page 1 of: 2
3. Emergency Response Phone: (800)326-1221
4. Manifest Tracking Number: 000337330MAS

GENERATOR

5. Generator's Name and Mailing Address:
BEARS GOLD INCORP. / DAWN JESS
3333 BEVERLY ROAD
HOFFMAN ESTATES, IL 60179
(510)222-5280
Generator's Phone:

Generator's Site Address (if different than mailing address):
KMART # 3331 / MC & C CLERK
1500 FITZGERALD DR.
PINOLE, CA 94564
GEN: 117571

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC / SIGNAL HILL — U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
HERITAGE ENVIRONMENTAL SERVICES LLC
284 E STOREY RD
COOLIDGE, AZ 85228
(520)723-4167
Facility's Phone:
U.S. EPA ID Number: AZD081705402

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN1950, WASTE AEROSOLS, 2.1, (D001 D039), ERG#126 (LCF 9mo)	1	CF	80	P	331 D039	D001	D035
X	2. ~~RQ, UN1978, WASTE PROPANE, 2.1, (D001), ERG#115~~ L/2. 5.26.10					~~331~~	~~D001~~	
	3. ~~UN1013, CARBON DIOXIDE, 2.2, ERG#120~~ LD 5.26.10					~~331~~		
X	4. RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, PGII, (PAINT), (D001), ERG#128 (LCF 9mo)	1	CF	45	P	D001	214	

14. Special Handling Instructions and Additional Information
1.W1_0450266_LDR ~~2.W8_0439806_LDR~~ 3.W13_0505838 4.W6_0450290_LDR
1 CY B A2 1 CY B F2
[1379353]BT

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: THERESA TEAGUE — Signature: [signature] — Month 5 Day 26 Year 10

INT'L

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: LUIS GUZAN — Signature: [signature] — Month 5 Day 26 Year 10
Transporter 2 Printed/Typed Name: ~~THERESA TEAGUE~~ L.G. 5.26.10 — Signature: ~~[signature]~~ L.G. 5.26.10 — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	~~H141~~	~~H141~~	H141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kenneth Payne — Signature: [signature] — Month 06 Day 17 Year 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (if required)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000018619
2. Page 1 of: 2
3. Emergency Response Phone: (800) 326-1221
4. Manifest Tracking Number: 000303740MAS

5. Generator's Name and Mailing Address:
SEARS HOLD INCORP. / DAWN JESS
3333 BEVERLY ROAD
HOFFMAN ESTATES, IL 60179
(510)222-5280
Generator's Phone:

Generator's Site Address (if different than mailing address):
KMART # 3531 / AC & C CLERK
1500 FITZGERALD DR.
PINOLE, CA 94564
GEN: 117571

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC / SIGNAL HILL
U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
HERITAGE ENVIRONMENTAL SERVICES LLC
284 E STOREY RD
COOLIDGE, AZ 85228
Facility's Phone: (520)723-4167
U.S. EPA ID Number: AZD081705402

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
~~X~~	1. ~~RQ, UN1950, WASTE AEROSOLS, 2.1, (D001 D039),~~ ERB#126 SR					~~331 D001 D039~~ ~~D039~~
~~X~~	2. ~~RQ, UN1978, WASTE PROPANE, 2.1, (D001), ERB#116~~ SR					~~331 D001~~
	3. ~~UN1013, CARBON DIOXIDE, 2.2, ERB#180~~ SR					~~331~~
~~X~~	4. ~~RQ, UN1263, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, PGII, (PAINT), (D001), ERB#128~~ SR	~~1~~	~~AE~~			~~D001~~ MA

14. Special Handling Instructions and Additional Information
~~1. WI_0450266_LDR 2. WS_0439806_LDR 3. WIS_0505838~~ 4. WS_0450290_LDR

[13545481]B

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgement of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CRISTINA GANTAN
Signature: [signature]
Month 3 Day 14 Year 10

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgement of Receipt of Materials
Transporter 1 Printed/Typed Name: STEVEN RIORDAN
Signature: [signature]
Month 3 Day 14 Year 10
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
~~H141~~	~~H141~~	~~H141~~	~~H141~~

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kenneth Payne
Signature: [signature]
Month Day Year 03 19 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE [illegible]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000018619
2. Page 1 of 2
3. Emergency Response Phone: (800) 326-1221
4. Manifest Tracking Number: 000284377WAS

5. Generator's Name and Mailing Address: CORP. / DAWN JESS
3333 BEVERLY ROAD
HOFFMAN ESTATES, IL 60179
(510)222-5280
Generator's Phone:

Generator's Site Address (if different than mailing address): CLERK
1500 FITZGERALD DR.
PINOLE, CA 94564
GEN: 117571

6. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC / SIGNAL HILL — U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name: Triad Transport — U.S. EPA ID Number: OKD981588791

8. Designated Facility Name and Site Address: HERITAGE ENVIRONMENTAL SERVICES LLC
284 E STOREY RD
COOLIDGE, AZ 85228
(520)723-4167
Facility's Phone: — U.S. EPA ID Number: AZD081705402

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN1950, WASTE AEROSOLS, 2.1, (D001 D039), ERG#126 1X55DF 42P	1	DF	42	P	331 D039	D001	D039
X	2. RQ, UN1978, WASTE PROPANE, 2.1, (D001), ERG#115 1X30DF 1CY 10P	1	CY	10	P	331	D001	
X	3. RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, PGII, (PAINT), (D001), ERG#128 1X20CF 38P	1	CF	38	P	D001	214	
X	4. RQ, UN1479, WASTE OXIDIZING SOLID, N.O.S., 5.1, PGII, (TRICHLORO-S-TRIAZINETRIONE), (D001), ERG#140 1X30DF 31P	12	DF	09	P	141	D001	

14. Special Handling Instructions and Additional Information: 1. WI_0430288_LDR 2. WS_0439506_LDR 3. WS_0450290_LDR 4. WI6_0520146_LDR

[133214636]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator/Offeror's Printed/Typed Name: CRISTINA GANTAN — Signature: CGantan — Month 12 Day 10 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: ____ — Transporter signature (for exports only): — Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: Tambard — Month 12 Day 10 Year 09

Transporter 2 Printed/Typed Name: Steve Corneto — Signature: Corneto — Month 12 Day 21 Year 09

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H141	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David D. Wendling — Signature: [illegible] — Month 01 Day 04 Year 10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESIGNATED STATE (if required)

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

CONTRA COSTA HEALTH SERVICES

CERTIFIED UNIFIED PROGRAM AGENCY

Contra Costa Health Services - Hazardous Materials Programs

4585 Pacheco Blvd, Martinez, CA 94553

UNIFIED HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

Annual Business Authorization/Permit

Permit Number: 71-4432

Mailing Address	Facility Operator, Name, and Address
CHRISTOPHER LIPMAN SEARS HOLDINGS CORP 3333 BEVERLY RD, B5-348A HOFFMAN ESTATES IL 60179	KMART CORPORATION KMART #3531 1500 FITZGERALD DR PINOLE, CA 94564

This business is permitted in the following CUPA Programs:

- ☑ Hazardous Material Business Plan/Hazardous Materials Management Plan (includes Uniform Fire Code, Article 80)
- ☐ California Accidental Release Plan (CalARP)/Accidental Release Plan (ARP)
- ☑ Hazardous Waste Generator.
- ☐ Hazardous Waste Treatment on site
- ☐ Storage of Hazardous Materials in Underground Tanks. (see attached permit)
- ☐ Aboveground Petroleum Storage Tanks(SPCC only).

☐ New ☑ Annual ☐ Other ☐ Renewal

AUTHORIZATION

This document is issued based on the condition that the applicant and the facility is in compliance with all applicable rules, regulations and laws pertaining to these CUPA programs. Failure to comply with all applicable codes and regulations will null and void this authorization/permit. See attached conditions of approval for each CUPA Program.

Signature Randall L. Sawyer

Title Dir of Hazardous Materials Programs

Printed name Randall L. Sawyer

Date Issued 07/01/2011

Expiration Date 06/30/2012

Retain a copy of the operating permit and all conditions and attachments, including monitoring plans, at the facility.

PERMIT CONDITIONS

Permit No: 71-4432 Facility KMART #3531

In order to maintain the operating permit, the permit holder must comply with all regulatory requirements, to include, but not all inclusive of the number items below:

* The unified program agency or CUPA fee shall be paid for per county or city ordinance and/or state law, whichever is the more strict.
* Hazardous Materials Business Plan Program, CHSC Division 20, Chapter 6.95, Article 1 and Title 19 CCR.
  1. Changes in the hazardous materials inventory which include the handling of a previously undisclosed or handling double the amount of a previously disclosed hazardous material must be reported to the CUPA or Participating Agency (PA) within thirty (30) days.
  2. Major changes in the business plan, including the change of name or phone number of 24 hour emergency contacts, must be reported to the CUPA or PA within thirty (30) days.
* Hazardous Waste Generator Program: CHSC Division 20, Chapter 6.5 Articles 1-13, Section 25100 et seq., and Title 22 CCR Chapter 20.

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 07/01/12 thru 06/30/13

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

	Regulated Program(s)	Permit #	Program Record #	Permit Fee Paid
1	HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457	YES
2	HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861	YES

IMMEDIATELY NOTIFY HAZARDOUS MATERIALS IF THERE ARE CHANGES IN FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES) BY CALLING (925) 335-3200.

THIS IS NOT AN INVOICE

KMART CORPORATION
CHRISTOPHER LIPMAN
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Materials Business Plan Inspection/Compliance Checklist

FACILITY NAME	SITE ID	INSPECTION DATE
K MART #3531	714432	15 NOV 2012

INSPECTION TYPE: (Routine) Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor Cl I = Major Cl II = Medium / Repeat Minor

[redacted]

Viol Code	Authority	Requirement	Viol Class	Violation Due Date/ Violation Corrected
BP01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.		
BP02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.		
BP03	19CCR 2729.4	Maximum quantity of all hazardous materials stored on site in reportable quantities are listed in the HMBP.		
BP04	19CCR 2729.5	Original signature on inventory forms for acutely hazardous materials ≥ Threshold Planning Quantities.		
BP05	19CCR 2729.2	Adequate submission / completion of site map.		
BP06	H&SC 25504	Adequate submission / completion / retention of written Emergency Response Plan. CORRECTED		15 NOV 2012
BP07	27CCR 15210 & H&SC 25404	Full and timely payment of the HMBP program annual fee.		
BP08	H&SC 25503.5	HMBP is maintained on-site or is accessible.		
BP09	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.		
BP10	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.		
BP11	19CCR 2731(c) & H&SC 25503(e)(1)	Procedures in place to mitigate, prevent or abate hazards to persons, property or the environment from a release or threatened release of hazardous materials. **See back for Best Management Practices (BMP).**		
BP12	—	Other:		

See back for Best Management Practices (BMP)

Observation:

INVENTORY ~~REPORTED~~ OBSERVED CONSISTENT WITH 2012 HAZARDOUS MATERIALS BUSINESS PLAN (HMBP). FACILITY IS OVER REPORTING ON SEVERAL HAZARDOUS MATERIALS. SITE MAP IS ACCURATE. FACILITY HAS EMERGENCY RESPONSE PLAN AND POSTED PROCEDURES. TRAINING RECORDS COMPUTERIZED - TRAINING DATES VARY.

BP06- ADDED EARTHQUAKE VULNERABILITY ASSESSMENT TO EXISTING EMERGENCY RESPONSE PLAN DURING THE INSPECTION.

CORRECTED

Total Time for Review and Inspection (in 15 minute increments): 8 ☐ Notice to Comply ☐ Notice of Violation ☐ No Violations Observed

Facility Rep Initials OEK CC Hazmat Initials DL Date 15 NOV 2012

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INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 FITZGERALD DRIVE PINOLE CA 94564	15 NOV 2012
Contact Name: OLIVER PERKINS	EPA ID	SITE ID
Contact Telephone: 510-290-8939	CAL000018619	714432

Program(s): (check all that apply)

☒ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☒ Hazardous Waste Generator (HW)	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☒ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization
OLIVER PERKINS	LOSS PREVENTION MGR	KMART
DEVRA LEWIS	HMS	CCHSHMP.

Facility Description/Comments: SCHEDULED INSPECTION OF A RETAIL STORE. WENT OVER INSPECTION WITH MR. PERKINS.

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep: OLIVER PERKINS (Consent to Inspect given by)	Facility Rep Signature: [signature]	Date: 11/15/2012
CC Hazmat Rep: DEVRA LEWIS	CC Hazmat Signature: Devra Lewis	Date: 15 NOV 2012

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Hazardous Waste Inspection/Compliance Checklist (page 1 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	15 Nov 2012

INSPECTION TYPE	VIOLATION CLASSIFICATIONS	EPA ID
(Routine) / Follow-Up / Other	M = Minor CI I = Major CI II = Medium / Repeat Minor	CAL000018619

Disposal Documents Reviewed For Year:	HW Gen Rpt Form On File?	Total Annual Tonnage of All Hazardous Waste Generated:
2011	[X] Yes [ ] No	0.28 T

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
331, D001, 16, 35, 39	OFF SPEC - WASTE AEROSOL, PROPANE	278 lbs
141	WASTE OXIDIZER, BLEACH	93 lbs
791, D002	WASTE CORROSIVE LIQUID - ACIDIC	17 lbs
123, D002	WASTE CORROSIVE LIQUID - CAUSTIC	27 lbs.
291	WASTE LATEX PAINT	94 lbs.
214, D001	WASTE FLAMMABLE LIQUID	54 lbs.
	Additional Wastes on Continuation Sheet? [ ] Yes [X] No	

Generator Status:
[ ] RCRA-LQG > 1,000 kg/month [ ] CA-LQG > 1,000 kg/month [ ] CA-SQG > 100 to < 1,000 kg/month [X] CA-CESQG < 100 kg/month [ ] Episodic

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days)		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC		
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(iii)	CCR 22 66265.16	Employee training program adequate.		
HW20	—	CCR 22 66265.16	Training Documentation		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency.		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

ENTERED

Facility Rep Initials	CC Hazmat Rep Initials	Date
OSL	OL	15 Nov 2012

CONTRA COSTA HEALTH SERVICES

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WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	15 NOV 2012

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available.		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33 Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space		
HW31	40 CFR 265.37, Via 262.34(d)(4)	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.201, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(e) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.201 Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations: VERY CLEAN HAZARDOUS WASTE STORAGE AREA. EXCELLENT CONTAINERS CONTAINERS ARE CLOSED AND LABELED. WEEKLY DOCUMENTED INSPECTIONS. PROCEDURES POSTED. SPILL KIT. ACTIVE EPA ID#

Total Time for Review and Inspection (in 15 minute increments): ☐ Notice to Comply ☐ Notice of Violation ☒ No Violations Observed

Facility Rep Initials OSE | CC Hazmat Rep Initials DL | Date 15 NOV 2012

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Deborah O. Raphael, Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Edmund G. Brown Jr.
Governor

EPA ID PROFILE

ID Number: CAL000018619 **Name :** KMART CORPORATION

Status: ACTIVE **Inactive Date:** **Record Entered:** 11/14/1989 **Last Updated:** 04/05/2010

County: CONTRA COSTA **NAICS:** 45299 **SIC:** 5399

	Name	Address	City	State	Zip Code	Phone
Location	KMART CORPORATION	1500 FITZGERALD DR	PINOLE	CA	945640000	
Mailing		3333 BEVERLY RD B5-362A	HOFFMAN ESTATES	IL	601790000	
Owner	KMART CORPORATION #3531	3333 BEVERLY RD B5-362A	HOFFMAN ESTATES	IL	601790000	8472867222
Operator/ Contact	MICHAEL OLSEN-DIR ENV AFFAIRS	3333 BEVERLY RD B5-362A	HOFFMAN ESTATES	IL	601790000	8472867222

Based ONLY upon ID Number **CAL000018619**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 11/14/2012

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR
2007	1 0.0625
2008	4 0.2975
2009	5 0.4245
2010	4 0.1490
2011	3 0.3040

Non California Manifest Total Tonnage

Waste Code By Year By Entity Matrix Report
(based on California Manifests only)

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

California Waste Code By Year Matrix

ID Number: **CAL000018619**

Entity Type : **GENERATOR**

Weight (in Tons)

Ship Years

Calif. Code	Description	2007	2008	2009	2010	2011
122	ALKALINE SOLUTION (PH>=12.5) W/O METALS					0.0325
123	UNSPECIFIED ALKALINE SOLUTION		0.0015			
141	OFF-SPEC, AGED, OR SURPLUS INORGANICS		0.0130	0.0100	0.0150	0.0210
214	UNSPECIFIED SOLVENT MIXTURE		0.0585	0.1515	0.0475	0.0270
291	LATEX WASTE				0.0100	0.0425
331	OFF-SPEC, AGED, OR SURPLUS ORGANICS		0.2240	0.2630	0.0765	0.1810
352	OTHER ORGANIC SOLIDS	0.0625				
791	LIQUIDS W PH<=2		0.0005			
	Grand Total	**0.0625**	**0.2975**	**0.4245**	**0.1490**	**0.3040**

RCRA Waste Code By Year Matrix Report

ID Number: CAL000018619

Entity Type: GENERATOR

Weight (in Tons)

Ship Years

RCRA Code	Description	2007	2008	2009	2010	2011
	Blank/Unknown		0.0035		0.0250	0.0685
D001	Ignitable	0.0625	0.0965	0.1815	0.0475	0.0270
D002	Corrosives		0.0020			0.0325
D016	2,4-D				0.0100	0.0885
D035	Methyl ethyl ketone					0.0385
D037	Pentrachlorophenol		0.0385			
D039	Tetrachloroethylene		0.1570	0.2430	0.0665	0.0490
	Grand Total	0.0625	0.2975	0.4245	0.1490	0.3040

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

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PHONE: (925)335-3200 FAX: (925)646-1073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 07/01/13 thru 06/30/14

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #353[illegible]
1500 FITZGERALD DR
PINOLE, CA [illegible]564

OWNER OF RECORD:
[illegible] CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

	Regulated Program(s)	Permit #	Program [illegible] #	Permit Fee Paid
1	HMBP: 1K-10K LBS/[illegible]0+ EMPLOYEES	PT0021938	PRO[illegible]57	YES
2	HWG: LESS THAN 5 TONS/YEAR	PT0025543	[illegible]386	YES

IMMEDIATELY NOTIFY HAZARDOUS MATERIALS IF THERE ARE CHANGES IN FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES) BY CALLING (925)335-[illegible]20.

THIS IS NOT AN INVOICE

KMART CORPORATION
ROBYN WEST
3333 BEVERLY RD, B5-362A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA
HEALTH SERVICES

Contra Costa Health Services - Hazardous Materials Programs
4585 Pacheco Blvd., Suite 100, Martinez, CA 94553
Telephone: (925) 335-3200 Fax: (925) 646-2073
WWW.CCHEALTH.ORG/HAZMAT
Randall L. Sawyer, Chief Environmental Health and Hazardous Materials Officer

KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

NOTICE TO COMPLY

May 07, 2014

CUPA Facility ID: 714432
Facility Name: KMART #3531
Business Address: 1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID: 10005925
Business Owner: KMART CORPORATION
Business Operator: KMART CORP

In January 2014, Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) sent KMART #3531 a letter requiring all businesses to submit the 2014 Certified Unified Program Agency (CUPA) information online using the California Environmental Reporting System (CERS). A copy of that letter can be found on our website at: http://cchealth.org/hazmat/pdf/Letter-CUPA-Submittal.pdf.

As of 5/7/2014, the following submittal elements have not been received or accepted by CCHSHMP:

* **FACILITY INFORMATION**
* **HAZARDOUS MATERIALS INVENTORY**
* **EMERGENCY RESPONSE AND TRAINING PLANS**

Instructions for accessing CERS and submitting the 2014 CUPA information using CERS can be found on our website at: http://cchealth.org/hazmat/cers-instructions.php.

In accordance with the Contra Costa County Board of Supervisors Resolution No. 2012/184, a 50% administrative penalty will be assessed to KMART CORPORATION if the submittal elements listed above are not received by CCHSHMP within thirty (30) days following the issuance of a Notice of Violation.

If you have any questions regarding this Notice to Comply or require assistance, please contact a Hazardous Materials Specialist at (925) 335-3200.

Sincerely,

Randall L. Sawyer
Chief Environmental Health and Hazardous Materials Officer
Contra Costa County

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

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PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 07/01/14 thru 06/30/15

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REGULATED FACILITY:
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KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)	Permit #	Program Record #	Permit Fee Paid
1 HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457	PAID
2 HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861	PAID

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

ROBYN WEST
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

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PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 7/1/2015 thru 6/30/2016

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

	Regulated Program(s)	Permit #	Program Record #	Permit Fee Paid
1	HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457	PAID
2	HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861	PAID

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

ROBYN WEST
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA HEALTH SERVICES

Contra Costa Health Services / Hazardous Materials Programs
4585 Pacheco Boulevard, Suite 100, Martinez, CA 94553
Telephone (925) 335-3200 FAX (925) 646-2073
WWW.CCHEALTH.ORG/GROUPS/HAZMAT
WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Waste Inspection/Compliance Checklist *(page 1 of 2)*

FACILITY NAME	SITE ID	INSPECTION DATE
KMART # 3531	714432	10/9/2015

INSPECTION TYPE	VIOLATION CLASSIFICATIONS	EPA ID
(Routine) Follow-Up / Other	M = Minor Cl I = Major Cl II = Medium / Repeat Minor	CAL000018619

California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 10, §66001 et al
California Health and Safety Code (HSC), Division 20, Chapter 6.5, §25100 et al
Code of Federal Regulations (CFR) Title 40, Chapter 1, Part 260 et al

Disposal Documents Reviewed For Year:	HW Gen Rpt Form On File?	Total Annual Tonnage of All Hazardous Waste Generated:
2014	☑ Yes ☐ No — Reported 0.43 tons	0.264 tons

CA State Waste Code if applicable, Federal Code(s)	Hazardous Waste Stream	Annual Quantity (Tons)
D001	Aerosols, + flammable liquids (110 lbs, 44, 13	157 lbs
D002	Waste oxidizers (28,	28 lbs
D006	toxic liquids (122, 20)	192 lb
122	hypochlorites, + base (30 12)	42 lbs
291	NON RCRA HW liquid (103)	103 lbs
	UN 1978 Propane (5)	5 lbs
	Additional Wastes on Continuation Sheet? ☐ Yes ☑ No	

Generator Status:
☐ RCRA-LQG > 1,000 kg/month ☐ CA-LQG > 1,000 kg/month ☐ CA-SQG > 100 to < 1,000 kg/month ☐ CA-CESQG < 100 kg/month ☐ Episodic

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW01	HSC 25189.5	HSC 25189.5	Disposal, treatment or storage at unauthorized location		
HW02	CCR 22 66262.11	CCR 22 66262.11	Hazardous Waste Determination		
HW03	CCR 22 66262.12	CCR 22 66262.12	Obtain & maintain a valid EPA ID Number (DTSC Form 1358)		
HW04	CFR 262.34(d)	—	Accumulation time may not exceed 180 days (Unless waste shipped 200 or more miles, no more than 270 days) ok		
HW05	—	CCR 22 66262.34(a)	Accumulation time may not exceed 90 days		
HW06	CCR 22 67450.1	CCR 22 67450.1	Notify CUPA for eligible onsite treatment.		
HW07	HSC 25163(a)	HSC 25163(a)	Lawful transportation of hazardous waste		
			RECORDKEEPING & REPORTING		
HW08	CCR 22 66262.20	CCR 22 66262.20	Properly Complete Manifest ok		
HW09	CCR 22 66262.23	CCR 22 66262.23	Send manifest copy to DTSC, P.O. Box 400, Sacramento, CA 95812		
HW10	HSC 25160.2	HSC 25160.2	Properly complete consolidated manifest ok		
HW11	CCR 22 66262.40	CCR 22 66262.40	Keep waste manifests and/or consolidated manifests for 3 years ok		
HW12	—	CCR 22 66262.40-41	Biennial Report (RCRA LQG Only)		
HW13	HSC 25123.3	CCR 22 66262.42	File manifest Exception Report with DTSC		
HW14	HSC 25143.10	HSC 25143.10	Biennial Excluded Recyclable Materials Report		
HW15	HSC 25143.2(f) & CCR 22 66261.2(g)	HSC 25143.2(f) & CCR 22 66261.2(g)	Maintain adequate records demonstrating claim of exemption for Excluded Recyclable Material		
HW16	CCR 22 66262.40(c)	CCR 22 66262.40(c)	Keep copies of analytical results, waste analysis records, or waste determination results for 3 years		
HW17	CCR 22 66266.130(c)(5)	CCR 22 66266.130(c)(5)	Keep disposal receipts for 3 years for drained used oil filters and/or drained fuel filters		
HW18	—	CCR 22 67100.1	SB14 – Hazardous Waste Source Reduction Evaluation Review Plan		
			HAZARDOUS WASTE HANDLER TRAINING		
HW19	40 CFR 262.34(d)(5)(iii)	CCR 22 66265.16	Employee training program adequate. ok		
HW20	—	CCR 22 66265.16	Training Documentation Computer based		
HW21	—	CCR 22 66265.16	Training Conducted Annually		
HW22	40 CFR 262.34(d)(5)(ii)	—	Post Emergency Response Plan by telephone.		
HW23	40 CFR 262.34(d)(5)(i)	CCR 22 66265.55	Have an emergency coordinator on call or available during emergency.		
HW24	—	CCR 22 66265.51-55	Contingency Plan Completed		

ENTERED

Facility Rep Initials	CC Hazmat Rep Initials	Date
MC-	NM	10/9/15

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Hazardous Waste Inspection/Compliance Checklist (page 2 of 2)

FACILITY NAME	SITE ID	INSPECTION DATE
KMART # 3531	714432	10/9/15

Viol Code	Authority SQG Via CCR 22 66262.34	Authority LQG	GENERAL REQUIREMENTS	Viol Class.	Violation Due Date/ Violation Corrected
HW25	40 CFR 262.34(d)(5)(iv)	CCR 22 66265.51	Properly carry out contingency plan during an emergency.		
			FACILITY OPERATION		
HW26	40 CFR 265.31, Via 262.34(d)(4)	CCR 22 66265.31	Maintain and/or operate facility to prevent release or fire		
HW27	40 CFR 265.32(c) Via 262.34(d)(4)	CCR 22 66265.32	Spill/fire control equipment available. ok		
HW28	40 CFR 265.32(a) & (b) Via 262.34(d)(4)	CCR 22 66265.32	Facility equipped with internal communication or alarm.		
HW29	40 CFR 265.33 Via 262.34(d)(4)	CCR 22 66265.33	Equipment properly maintained and tested		
HW30	40 CFR 265.35, Via 262.34(d)(4)	CCR 22 66265.35	Maintain adequate aisle space ok		
HW31	40 CFR 265.37, Via 262.34(d)(4)	CCR 22 66265.37	Arrangements with response agencies		
			HAZARDOUS WASTE TANKS & CONTAINERS		
HW32	CCR 22 66262.34(f)	—	Properly label/date hazardous waste container and/or tank.		
HW33	CCR 22 66262.34	CCR 22 66262.34	Proper Markings including start date and composition ok		
HW34	HSC 25143.9(a)	HSC 25143.9(a)	Proper label on Excluded Recyclable Materials		
			HAZARDOUS WASTE CONTAINERS		
HW35	CFR 265.171, Via 262.34(d)(2)	CCR 22 66265.171	Container in good condition ok		
HW36	CFR 265.172, Via 262.34(d)(2)	CCR 22 66265.172	Container and/or liner compatible		
HW37	CFR 265.173, Via 262.34(d)(2)	CCR 22 66265.173	Containers are kept closed ok		
HW38	CFR 265.174, Via 262.34(d)(2)	CCR 22 66265.174	Conduct weekly inspections Yes, current		
HW39	—	CCR 22 66265.176	Buffer zone for ignitable wastes		
HW40	CFR 265.177, Via 262.34(d)(2)	CCR 22 66265.177	Properly separate incompatible wastes		
HW41	CCR 22 66261.7(e)(f)(i)	CCR 22 66261.7(e)(f)(i)	Properly manage containers or inner liners removed from containers greater than 5 gallons (Accumulation time not to exceed one year)		
			HAZARDOUS WASTE TANK SYSTEMS		
HW42	CFR 262.201, Via 262.34(d)(2)	CCR 22 66265.190	Tank in good condition		
HW43	—	CCR 22 66265.191(a) & (e)	Complete annual integrity assessment for HW tank system without secondary containment.		
HW44	—	CCR 22 66265.191(a) or 66265.192(a)	Failed to obtain a PE assessment for hazardous waste (HW) tank system.		
HW45	Check local FD	CCR 22 66265.193(a)	Failed to provide proper secondary containment and/or leak detection for HW tank system.		
HW46	CFR 265.201, Via 262.34(d)(2)	CCR 22 66265.194(a)	Failed to use proper spill/overfill prevention controls and practices.		
HW47	CFR 265.201 Via 262.34(d)(2)	CCR 22 66265.194	Comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily inspections of waste levels		
HW48	—	CCR 22 66265.195(c)	Failed to inspect and/or document daily HW tank system inspections.		
HW49	—	CCR 22 6265.196(e)(1) or (3)	Notify DTSC when a release to environment occurred from HW tank system.		
HW50	CCR 22 67383.3	CCR 22 66265.197 CCR 22 67383.3	Properly complete and/or document closure for a hazardous waste tank.		
HW51	—	—	Other:		

Observations:

Total Time for Review and Inspection (in 15 minute increments): 120 ☐ Notice to Comply ☐ Notice of Violation ☑ No Violations Observed

Facility Rep Initials M.C. CC Hazmat Rep Initials NW Date 10/9/15

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WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

Hazardous Materials Business Plan Inspection/Compliance Checklist

FACILITY NAME	SITE ID	INSPECTION DATE
KMART #3531	714432	10/9/15

INSPECTION TYPE: (Routine) Follow-Up / Other

VIOLATION CLASSIFICATIONS: M = Minor CI I = Major CI II = Medium / Repeat Minor

California Code of Regulations, Title 19, Division 2, Chapter 4, §2620 et seq; Title 27, Div 1, Subdiv. 2, Chap. 1, Part II
California Health and Safety Code, Division 20, Chapter 6.95, §25404, §25507-25529

Viol Code	Authority	Requirement	Viol Class	Violation Due Date/ Violation Corrected
BP01	19CCR 2729.2	Adequate submission / completion of Business Activities & Owner / Operator Identification Forms.		
BP02	19CCR 2729.2	Adequate submission / completion of chemical inventory forms.		
BP03	19CCR 2729.4	Maximum quantity of all hazardous materials stored on site in reportable quantities are listed in the HMBP.		
BP04	19CCR 2729.5	Original signature on inventory forms for acutely hazardous materials ≥ Threshold Planning Quantities.		
(BP05)	19CCR 2729.2	Adequate submission / completion of site map.	M	11/9/15
BP06	H&SC 25504	Adequate submission / completion / retention of written Emergency Response Plan.		
BP07	27CCR 15210 & H&SC 25404	Full and timely payment of the HMBP program annual fee.		
BP08	H&SC 25503.5	HMBP is maintained on-site or is accessible.		
BP09	H&SC 25504(c) & 19CCR 2732	Initial employee training program for hazardous materials/emergency response implemented and adequate.		
BP10	H&SC 25504(c) & 19CCR 2732	Annual hazardous materials/emergency response refresher component of the employee training program implemented and adequate.		
BP11	19CCR 2731(c) & H&SC 25503(e)(1)	Procedures in place to mitigate, prevent or abate hazards to persons, property or the environment from a release or threatened release of hazardous materials. **See back for Best Management Practices (BMP).**		
BP12	—	Other:		

See back for Best Management Practices (BMP)

Observation: BP05 The most recently submitted site map is missing elements.
Violation: Adequate completion of site map.
Corrective Action: Submit an updated site map including: fire extinguisher locations, evacuation staging area, loading zones, storm drains, emergency shut off devices and emergency response equipment by 11/9/2015.

ENTERED

Total Time for Review and Inspection (in 15 minute increments): 60 ☑ Notice to Comply ☐ Notice of Violation ☐ No Violations Observed

Facility Rep Initials M.E. CC Hazmat Initials NU Date 10/9/15

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WILLIAM B. WALKER, M.D., HEALTH SERVICES DIRECTOR • RANDALL L. SAWYER, DIRECTOR

INSPECTION COVER SHEET

FACILITY NAME	FACILITY ADDRESS	INSPECTION DATE
KMART #3531	1500 Fitzgerald Dr. Pinole, CA	10/9/2015
Contact Name Robin West	**EPA ID** CAL000018619	**SITE ID** 714432
Contact Telephone 847-286 0037		

Program(s): (check all that apply) 1k-10k, 20+ employees

☑ Hazardous Materials Release Response Plan / Business Plan (BP)	☐ Tiered Permitting (TP)
☑ Hazardous Waste Generator (HW) <5 tons HW	☐ Green Business (GB)
☐ Underground Storage Tank (UST)	☐ Storm Water Program (SWP)
☐ Aboveground Petroleum Storage Act (APSA)	☐ California Accidental Release Prevention Program (CalARP)

CUPA Permit Current: Yes ☑ No ☐

REPRESENTATIVES PRESENT:

Name	Title	Organization
Maria Caballero	Asst. Manager	KMART

Facility Description/Comments: Unannounced inspection - Retail Sales

ISSUANCE OF NOTICES:

A **NOTICE TO COMPLY** or **NOTICE OF VIOLATION** is issued to identify conditions observed this day that are alleged to be violations of one or more sections of the California Health and Safety Code (HSC), the California Code of Regulations (CCR), Code of Federal Regulations (CFR), or Contra Costa County Code (CCC). The facility may be subject to reinspection at any time by Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) to ensure that observed violations cited on the Notices are corrected. Failure to correct violations within the scheduled period provided may result in CCHSHMP citing the facility for continuing or additional violations. Issuances of Notices do not preclude CCHSHMP from taking any administrative, civil, or criminal action as a result of the violations noted. (See back)

CONSENT:

Consent includes inspecting hazardous material/waste handling areas, taking photographs, reviewing and copying documents, questioning personnel and sampling activities to determine compliance with applicable laws and regulations.

Facility Rep Maria Caballero Consent to inspect given by	Facility Rep Signature Maria Caballero	Date 10/9/15
CC Hazmat Rep Nick Umemoto	CC Hazmat Signature NK	Date 10/9/15

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat

PERMIT NUMBER: 07-000-714432
PERMIT TO OPERATE

Permit Valid 7/1/2016 thru 6/30/2017

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)	Permit #	Program Record #
1 HMBP: 1K-10K LBS, 20+ EMPLOYEES	PT0021938	PR0049457
2 HWG: LESS THAN 5 TONS/YEAR	PT0025543	PR0053861

FOR CHANGES TO THE FACILITY, OWNERSHIP, AND/OR BILLING ADDRESS(ES), PLEASE LOG IN TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) AT http://cers.calepa.ca.gov AND RESUBMIT THE FACILITY INFORMATION SECTION.

THIS IS NOT AN INVOICE

CYNTHIA MILLER
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
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4585 PACHECO BLVD., STE 100, MARTINEZ, CA 94553-2233
PHONE: (925)335-3200 FAX: (925)646-2073 www.cchealth.org/hazmat
CCCHAZMAT@HSD.CCCOUNTY.US

PERMIT NUMBER: 07-000-714432
CERS ID: 10005925
PERMIT TO OPERATE

Permit Valid 7/1/2017 thru 6/30/2018

This is to certify that the owner and establishment shown have been granted permission to operate subject to compliance with all applicable laws and regulations. This permit is valid for the period shown above unless revoked or suspended for violation of applicable laws and/or regulations.

REGULATED FACILITY:
ID # FA0031791
KMART #3531
1500 FITZGERALD DR
PINOLE, CA 94564

OWNER OF RECORD:
KMART CORPORATION
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Regulated Program(s)		Program Record #
1	HMBP: 1K-10K LBS, 20+ EMPLOYEES	PR0049457
2	HWG: LESS THAN 5 TONS/YEAR	PR0053861

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JAMES TUNNEY
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

ANNA M. ROTH, RN, MS, MPH
HEALTH SERVICES DIRECTOR

RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH & HAZMAT OFFICER

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
ENVIRONMENTAL HEALTH &
HAZARDOUS MATERIALS PROGRAMS

4585 Pacheco Blvd. Suite 100
Martinez, CA 94553

Ph (925) 335-3200
Fax (925) 646-2073
www.cchealth.org/hazmat/

CUPA Facility ID: 714432

KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

NOTICE OF VIOLATION

IMMEDIATE ACTION REQUIRED - PENALTIES MAY BE ASSESSED

March 27, 2018

CUPA Facility ID: 714432
Facility Name: KMART #3531
Business Address: 1500 FITZGERALD DR
PINOLE, CA 94564

CERS ID: 10005925
Business Owner: KMART CORPORATION
Business Operator: KMART CORPORATION

Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) sent a letter to all businesses on January 02, 2018 requiring the submittal of the 2018 Certified Unified Program Agency (CUPA) information online using the California Environmental Reporting System (CERS).

VIOLATION: **Failure to submit complete/correct CUPA information to the Local Agency on or before March 01, 2018.**
VIOLATION DEGREE: **Class II**
OBSERVATION: **As of March 27, 2018, the following submittal element(s) have not been received and/or accepted by CCHSHMP:**

* **HAZARDOUS MATERIALS INVENTORY**
  California Health and Safety Code, Sections 25515 and 25515.2

CORRECTIVE ACTION: **Immediately log on to CERS (http://cers.calepa.ca.gov/) and submit the 2018 CUPA submittal element(s) requested above. Instructions for accessing CERS and submitting the 2018 CUPA information can be found on our website at: http://cchealth.org/hazmat/cers-instructions.php.**
CORRECT BY: **April 27, 2018**

In accordance with the Contra Costa County Board of Supervisors Resolution No. 2012/184, a 50% administrative penalty will be assessed to KMART CORPORATION if the submittal elements listed above are not received by CCHSHMP within thirty (30) days following the issuance of a Notice of Violation.

If you have any questions regarding this Notice of Violation or require assistance with your CERS submittal, please contact a Hazardous Materials Specialist at (925) 335-3200.

Sincerely,

Randall L. Sawyer, Chief Environmental Health and Hazardous Materials Officer

7003 1680 0004 0066 4607

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714432
KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B5-348A
HOFFMAN ESTATES, IL 60179

Sent

Stree
or PO Box No.

City, State, ZIP+4

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

714432
KMART CORPORATION
KMART #3531
3333 BEVERLY RD, B3-348A
HOFFMAN ESTATES, IL 60179

9590 9402 3755 8032 3625 63

2. Article Number (Transfer from service label)

7003 1680 0004 0066 4607

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery 3-30-18

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

RECEIVED
APR 02 2018
Contra Costa Health
Hazardous Materials

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☑ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA COUNTY
HAZARDOUS MATERIALS PROGRAMS
CERTIFIED UNIFIED PROGRAM AGENCY

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PAGE 1447 STATE WATER RESOURCES CONTROL BOARD 06/01/88

HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR CONTRA COSTA COUNTY

CONTAINER TYPES: 1,2,3,4,5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
KMART CORPORATION
P. O. BOX 3150 TROY MI 48084

II FACILITY

	MAILING ADDRESS TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO. OF CONTAINERS
KMART ENTERPRISES 1500 FITZGERALD DRIVE PINOLE CA 94564	1500 FITZGERALD DRIVE PINOLE CA 94564		AUTO REPAIR
CROSS STREET :		(415) 223-2214	1

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: (415) 223-2214 NIGHT: ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 4144 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000014432001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: KENNEDY /1981
C. YEAR INSTALLED : 1981
D. CAPACITY (GALLONS) : 500
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : WASTE
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: WASTE OIL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: 3/16 INCHES B. VAULTING: NON-VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNLINED
F. WRAPPING : CATHODIC

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : GRAVITY
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
PRESSURE TEST

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12035 WASTE OIL

APPENDIX C: REGULATORY DATABASE REPORT

PARTNER

ERIS

DATABASE REPORT

Project Property:	*Pinole Mixed-Use* *1500 Fitzgerald Drive* *PINOLE CA 94564*
Project No:	*22-353963.1*
Report Type:	*Database Report*
Order No:	*22011800758*
Requested by:	*Partner Engineering and Science, Inc.*
Date Completed:	*January 20, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*Pinole Mixed-Use* *1500 Fitzgerald Drive PINOLE CA 94564*
Project No:	*22-353963.1*

Coordinates:

Latitude:	*37.99047309*
Longitude:	*-122.30450723*
UTM Northing:	*4,204,986.15*
UTM Easting:	*561,070.67*
UTM Zone:	*UTM Zone 10S*

Elevation:	*196 FT*

Order Information:

Order No:	*22011800758*
Date Requested:	*January 18, 2022*
Requested by:	*Partner Engineering and Science, Inc.*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (with Project Boundaries)*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*
Vapor Screening Tool	*Vapor Screening Tool*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	**2**	0	-	**2**
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	**1**	0	-	-	**1**
RCRA VSQG	Y	0.25	0	**1**	0	-	-	**1**
RCRA NON GEN	Y	0.25	**2**	**6**	**14**	-	-	**22**
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	0	1	3	4
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
SWRCB SWF	Y	0.5	0	0	0	0	-	0
WMUD	Y	0.5	0	0	0	0	-	0
HWP	Y	1	0	0	0	0	0	0
SWAT	Y	0.5	0	0	0	0	-	0
C&D DEBRIS RECY	Y	0.5	0	1	1	1	-	3
RECYCLING	Y	0.5	0	0	0	0	-	0
PROCESSORS	Y	0.5	0	0	0	0	-	0
CONTAINER RECY	Y	0.5	0	0	0	0	-	0
LDS	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	1	4	-	5
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	1	-	-	1
UST CLOSURE	Y	0.5	0	0	0	0	-	0
HHSS	Y	0.25	0	0	0	-	-	0
UST SWEEPS	Y	0.25	1	1	1	-	-	3
AST	Y	0.25	0	0	0	-	-	0
AST SWRCB	Y	0.25	0	0	0	-	-	0
TANK OIL GAS	Y	0.25	0	0	0	-	-	0
DELISTED TNK	Y	0.25	0	0	1	-	-	1
CERS TANK	Y	0.25	0	0	1	-	-	1
DELISTED CTNK	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	1	0	0	-	-	1
LUR	Y	0.5	0	0	0	0	-	0
CALSITES	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HLUR	Y	0.5	0	0	0	0	-	0
DEED	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	**1**	-	**1**
CLEANUP SITES	Y	0.5	0	0	0	0	-	0
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0
County								
CUPA CONTRACO	Y	0.25	**2**	**15**	**11**	-	-	**28**
Additional Environmental Records								
Federal								
FINDS/FRS	Y	PO	**2**	-	-	-	-	**2**
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	**2**	0	-	-	**2**
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	1	1
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
DRYCLEANERS	Y	0.25	0	3	0	-	-	3
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DRYC GRANT	Y	0.25	0	0	0	-	-	0
PFAS	Y	0.5	0	0	0	0	-	0
PFAS GW	Y	0.5	0	0	0	0	-	0
HWSS CLEANUP	Y	0.5	0	0	0	0	-	0
TOXIC PITS	Y	1	0	0	0	0	0	0
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	0	1	1
CHMIRS	Y	PO	0	-	-	-	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	2	-	-	-	-	2
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	0	-	-	-	-	0
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	0	12	-	-	-	12
DELISTED HAZ	Y	0.5	0	0	1	4	-	5
GEOTRACKER	Y	0.125	0	0	-	-	-	0
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
EMISSIONS	Y	0.25	0	6	5	-	-	11
CDL	Y	0.125	0	3	-	-	-	3
Tribal	***No Tribal additional environmental record sources available for this State.***							
County	***No County additional environmental databases were selected to be included in the search.***							
	Total:		***10***	***51***	***39***	***11***	***5***	***116***

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	FINDS/FRS	KMART #3531	1500 FITZGERALD DR PINOLE CA 94564 ***Registry ID:*** *110055912213*	NE	0.00 / 0.00	11	37
1	CUPA CONTRACO	KMART #3531	1500 FITZGERALD DR PINOLE CA 94564	NE	0.00 / 0.00	11	37
1	HAZNET	KMART #3531	1500 FITZGERALD DR PINOLE CA 945640000	NE	0.00 / 0.00	11	38
1	HAZNET	1X KMART 3531	1500 FITZGERALD DR. PINOLE CA 945640000	NE	0.00 / 0.00	11	47
1	HIST TANK	KMART ENTERPRISES	1500 FITZGERALD DRIVE PINOLE CA	NE	0.00 / 0.00	11	49
1	CUPA CONTRACO	KEYME	1500 FITZGERALD DR PINOLE CA 94564	NE	0.00 / 0.00	11	49
1	RCRA NON GEN	KEYME INC	1500 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** *CAL000437332*	NE	0.00 / 0.00	11	49
1	RCRA NON GEN	KMART #3531	1500 FITZGERALD DR PINOLE CA 94564-0000 ***EPA Handler ID:*** *CAL000018619*	NE	0.00 / 0.00	11	50
1	FINDS/FRS	KEYME INC	1500 FITZGERALD DR PINOLE CA 94564 ***Registry ID:*** *110070483794*	NE	0.00 / 0.00	11	51
1	UST SWEEPS	K MART ENTERPRISES	1500 FITZGERALD DR PINOLE CA ***C C | Status:*** *I07-000-14432 | INACTIVE* ***Tank ID:*** *000001*	NE	0.00 / 0.00	11	52

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
2	CDL		1501 FITZGERALD DR, RM 151 (MOTEL 6) PINOLE CA 94564	NNW	0.01 / 63.82	1	52
3	CUPA CONTRACO	MOUNTAIN MIKES PIZZA	1516 FITZGERALD DR PINOLE CA 94564	NNE	0.01 / 77.22	-12	52
3	CERS HAZ	Mountain Mikes Pizza	1516 FITZGERALD DR PINOLE CA 94564	NNE	0.01 / 77.22	-12	53
4	CUPA CONTRACO	SIZZLER 1882	1515 FITZGERALD DR PINOLE CA 94564	NNE	0.02 / 91.62	-14	55
5	CUPA CONTRACO	GOODYEAR TIRE & SERVICE	1520 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 133.82	1	55
5	CERS HAZ	GOODYEAR TIRE & SERVICE	1520 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 133.82	1	56
5	RCRA NON GEN	JOHN KIM SALES AND SERVICE DBA PINOLE GOODYEAR	1520 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000421514	NE	0.03 / 133.82	1	59
5	UST SWEEPS	GOODYEAR TIRE	1520 FITZGERALD DR PINOLE CA ***C C*** | ***Status:*** A07-000-70106 | ACTIVE ***Tank ID:*** 000001	NE	0.03 / 133.82	1	60
6	CUPA CONTRACO	LUCKY #742	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	-8	61
6	CERS HAZ	LUCKY #742	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	-8	61
6	EMISSIONS	ALBERTSONS #7080	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	-8	66
6	EMISSIONS	LUCKY #742	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	-8	66

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
6	RCRA VSQG	SAVEMART SUPERMARKETS DBA LUCKY NO 742	1530 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAR000249706	NE	0.03 / 144.67	-8	71
7	CUPA CONTRACO	WEST CO WASTEWATER DISTRICT	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	-2	75
7	CERS HAZ	WEST CO WASTEWATER DISTRICT	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	-2	75
7	EMISSIONS	WEST COUNTY WASTEWATER DISTRIC	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	-2	78
7	EMISSIONS	WEST COUNTY WASTEWATER DISTRICT	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	-2	81
8	CUPA CONTRACO	TACO BELL #2374	1561 FITZGERALD DR PINOLE CA 94564	NE	0.04 / 201.79	-15	83
8	CERS HAZ	Taco Bell #2374	1561 FITZGERALD DR PINOLE CA 94564	NE	0.04 / 201.79	-15	84
9	RCRA NON GEN	BRIGHT NOW DENTAL A DENTAL OFFICE OF LENG C. HAONG, D.D.S., INC	1477 FITZGERALD DR STE 106 PINOLE CA 94564-2257 ***EPA Handler ID:*** CAL000306347	WNW	0.06 / 343.03	67	86
10	CUPA CONTRACO	KFC (KENTUCKY FRIED CHICKEN)	1544 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 345.10	-15	87
10	CERS HAZ	KFC (Kentucky Fried Chicken)	1544 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 345.10	-15	87
11	CUPA CONTRACO	PINOLE CARL'S JR.	1550 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 346.24	-15	89
11	CERS HAZ	Pinole Carl's Jr.	1550 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 346.24	-15	90
12	CUPA CONTRACO	BURGER KING 3217	1571 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 374.88	-17	94

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
13	CUPA CONTRACO	BEST BUY #0138	1490 FITZGERALD DR PINOLE CA 94564	W	0.07 / 387.61	61	94
13	CERS HAZ	Best Buy #0138	1490 FITZGERALD DR PINOLE CA 94564	W	0.07 / 387.61	61	94
13	RCRA NON GEN	BEST BUY STORE #138	1490 FITZGERALD RD PINOLE CA 94564 ***EPA Handler ID:*** CAL000425942	W	0.07 / 387.61	61	96
14	CUPA CONTRACO	AUTOZONE #3312	1475 FITZGERALD DR PINOLE CA 94564	W	0.08 / 411.26	58	97
14	CERS HAZ	AUTOZONE #3312	1475 FITZGERALD DR PINOLE CA 94564	W	0.08 / 411.26	58	98
14	RCRA NON GEN	AUTOZONE #3312	1475 FITZGERALD DR STE 100 PINOLE CA 94564 ***EPA Handler ID:*** CAL000275414	W	0.08 / 411.26	58	101
14	C&D DEBRIS RECY	AUTOZONE #3312	1475 FITZGERALD DR PINOLE CA 94564	W	0.08 / 411.26	58	102
15	CUPA CONTRACO	PANDA EXPRESS #808	1473 FITZGERALD DR 101 PINOLE CA 94564	W	0.09 / 475.57	52	103
15	CERS HAZ	Panda Express #808	1473 FITZGERALD DR STE 101 PINOLE CA 94564	W	0.09 / 475.57	52	103
16	RCRA NON GEN	ATHULA WILLATHGAMUWA	964 VALERIE COURT EL SOBRANTE CA 94803 ***EPA Handler ID:*** CAC003002322	SSE	0.10 / 510.84	103	105
17	CDL		1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	-7	106
17	CUPA CONTRACO	BIG 5 SPORTING GOODS #062	1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	-7	106
17	CERS HAZ	BIG 5 SPORTING GOODS #062	1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	-7	106

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
17	RCRA NON GEN	BIG 5 SPORTING GOODS #062	1572 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000410134	ENE	0.11 / 555.86	-7	108
18	EMISSIONS	KIYOHARA CLEANERS	1576 FITZGERALD WY PINOLE CA 94564	ENE	0.11 / 562.71	-7	109
18	EMISSIONS	SUN'S CLEANERS	1576 FITZGERALD WY PINOLE CA 94564	ENE	0.11 / 562.71	-7	111
18	FED DRYCLEANERS	SUN'S CLEANERS	1576 FITZGERALD WY PINOLE CA 94564 ***FRS Facility ID:*** 110021340244	ENE	0.11 / 562.71	-7	113
19	CUPA CONTRACO	WENDYS/WINGSTOP	1581 FITZGERALD DR PINOLE CA 94564	ENE	0.12 / 619.24	5	114
19	CERS HAZ	Wendys/Wingstop	1581 FITZGERALD DR PINOLE CA 94564	ENE	0.12 / 619.24	5	114
20	RCRA SQG	KIYOHARA CLEANERS	1576 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAD981965718	ENE	0.12 / 626.98	5	116
20	CUPA CONTRACO	SUN'S CLEANERS	1576 FITZGERALD DR G-1 PINOLE CA 94564	ENE	0.12 / 626.98	5	118
20	DRYCLEANERS	KIYOHARA CLEANERS	1576 FITZGERALD DR PINOLE CA	ENE	0.12 / 626.98	5	118
20	DRYCLEANERS	SUN'S CLEANERS	1576 FITZGERALD DR PINOLE CA	ENE	0.12 / 626.98	5	118
20	DRYCLEANERS	DUTCH MAID CLEANERS	1576 FITZGERALD DR PINOLE CA	ENE	0.12 / 626.98	5	119
20	FED DRYCLEANERS	KIYOHARA CLEANERS	1576 FITZGERALD DR PINOLE CA 94564 ***FRS Facility ID:*** 110001157015	ENE	0.12 / 626.98	5	119
21	CDL		2426 APPIAN WAY (PUBLIC STORAGE) PINOLE CA 94564	ENE	0.12 / 659.76	13	119

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
22	CUPA CONTRACO	T-MOBILE WEST, LLC BA11197A	1441 FITZGERALD DR PINOLE CA 94564	W	0.13 / 682.65	32	119
23	CUPA CONTRACO	DOLLAR TREE #03178	1598 FITZGERALD DR PINOLE CA 94564	ENE	0.13 / 686.97	13	120
23	RCRA NON GEN	DOLLAR TREE #03178	1598 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000390884	ENE	0.13 / 686.97	13	120
24	EMISSIONS	SUN'S CLEANERS	1576 FITZGERALD WAY PINOLE CA 94564	ENE	0.14 / 714.71	23	121
25	CUPA CONTRACO	PINOLE GROCERY OUTLET	1460 FITZGERALD DR PINOLE CA 94564	W	0.16 / 863.25	22	122
25	RCRA NON GEN	PROVIDENT GROCERIES INC DBA PINOLE GROCERY OUTLET	1460 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000417097	W	0.16 / 863.25	22	122
26	CUPA CONTRACO	ANTONI'S PAINTING & DECORATING	1094 KELVIN RD EL SOBRANTE CA 94803	S	0.16 / 868.46	80	123
27	CUPA CONTRACO	CHUCK E CHEESES	1470 FITZGERALD DR PINOLE CA 94564	W	0.16 / 868.72	22	124
28	CUPA CONTRACO	BAKER TRUCKING	1101 KELVIN RD EL SOBRANTE CA 94803	S	0.17 / 881.28	80	124
29	DELISTED TNK	VALERO #7-142	2401 APPIAN WAY PINOLE CA 94564	ENE	0.17 / 894.24	1	124
29	CUPA CONTRACO	7-ELEVEN INC. STORE# 37994	2401 APPIAN WY PINOLE CA 94564	ENE	0.17 / 894.24	1	124
29	LUST	EXXON	2401 APPIAN WY PINOLE CA 94564 ***Global ID | Status | Status Date:*** T0601300727 | COMPLETED - CASE CLOSED | 12/13/2001	ENE	0.17 / 894.24	1	125
29	CERS TANK	7-ELEVEN INC. STORE# 37994	2401 APPIAN WAY PINOLE CA 94564 ***Site ID:*** 165505	ENE	0.17 / 894.24	1	131

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
29	UST	7-ELEVEN INC. STORE# 37994	2401 Appian Way Pinole CA 94564 ***Facility ID:*** 07-000-770750	ENE	0.17 / 894.24	1	141
29	RCRA NON GEN	7 ELEVEN 37994	2401 APPIAN WAY PINOLE CA 94564 ***EPA Handler ID:*** CAL000418991	ENE	0.17 / 894.24	1	141
29	RCRA NON GEN	VALERO CORNER STORE 3805	2401 APPIAN WAY PINOLE CA 94564-2246 ***EPA Handler ID:*** CAL000384050	ENE	0.17 / 894.24	1	143
29	EMISSIONS	7- ELEVEN INC. #37994	2401 APPIAN WAY PINOLE CA 94564	ENE	0.17 / 894.24	1	144
29	UST SWEEPS	EXXON R/S 76141	2401 APPIAN WAY PINOLE CA ***C C | Status:*** I07-000-70750 | INACTIVE ***Tank ID:*** 000001, 000003, 000004, 000002	ENE	0.17 / 894.24	1	145
30	RCRA NON GEN	ERIC LIM	1130 ALBERDAN CIRCLE PINOLE CA 94564 ***EPA Handler ID:*** CAC003095445	NW	0.20 / 1,049.04	-67	146
31	RCRA NON GEN	SUSAN COLE	2510 LYNN DRIVE PINOLE CA 94564 ***EPA Handler ID:*** CAC003076365	ENE	0.20 / 1,054.98	33	147
32	CUPA CONTRACO	MICHAELS STORE #4741	1450 FITZGERALD DR PINOLE CA 94564	W	0.21 / 1,092.20	15	148
32	RCRA NON GEN	MICHAELS STORES INC #4741	1450 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000371253	W	0.21 / 1,092.20	15	148
33	CUPA CONTRACO	O'REILLY AUTO PARTS #2833	1442 FITZGERALD DR PINOLE CA 94564	W	0.23 / 1,237.36	-18	149
33	RCRA NON GEN	O'REILLY AUTO PARTS STORE 2833	1442 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000392642	W	0.23 / 1,237.36	-18	149
33	C&D DEBRIS RECY	O'REILLY AUTO PARTS #2833	1442 FITZGERALD DR PINOLE CA 94564	W	0.23 / 1,237.36	-18	151
34	CUPA CONTRACO	WCCUSD/CRESPI MIDDLE SCHOOL	1121 ALLVIEW AVE EL SOBRANTE CA 94803	SSW	0.24 / 1,264.92	-34	151

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
34	RCRA TSD	CRESPI MIDDLE SCHOOL	1121 ALLVIEW AVENUE EL SOBRANTE CA 94803 ***EPA Handler ID:*** CAL000013191	SSW	0.24 / 1,264.92	-34	151
34	RCRA NON GEN	CRESPI MIDDLE SCHOOL	1121 ALLVIEW AVENUE EL SOBRANTE CA 94803 ***EPA Handler ID:*** CAL000013191	SSW	0.24 / 1,264.92	-34	152
34	RCRA NON GEN	WCCUSD HARBOUR WAY	1121 ALLVIEW AVE EL SOBRANTE CA 94803 ***EPA Handler ID:*** CAC002978577	SSW	0.24 / 1,264.92	-34	153
34	RCRA NON GEN	SABRINA KEYS	1121 ALLVIEW AVE EL SOBRANTE CA 94803-1054 ***EPA Handler ID:*** CAC003027325	SSW	0.24 / 1,264.92	-34	154
35	CUPA CONTRACO	WESTLAKE HARDWARE #148	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	-24	155
35	EMISSIONS	ORCHARD SUPPLY COMPANY, LLC - SITE #350	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	-24	156
35	EMISSIONS	ORCHARD SUPPLY HARDWARE	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	-24	156
35	EMISSIONS	ORCHARD SUPPLY COMPANY, LLC -	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	-24	157
35	DELISTED HAZ	ORCHARD SUPPLY HARDWARE #0350	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	-24	157
35	RCRA NON GEN	ORCHARD SUPPLY COMPANY LLC DBA ORCHARD SUPPLY HARDWARE #0350	1440 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000389951	W	0.24 / 1,282.78	-24	158
35	RCRA NON GEN	MINUTE KEY INC	1440 FITZGERALD DRIVE PINOLE CA 94564 ***EPA Handler ID:*** CAL000438615	W	0.24 / 1,282.78	-24	159
35	RCRA TSD	WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148	1440 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** CAL000445397	W	0.24 / 1,282.78	-24	160

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
35	RCRA NON GEN	WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	-24	161
			EPA Handler ID: CAL000445397				
36	VCP	APPIAN 80 EXPRESS CLEANERS	1577 TARA HILLS DRIVE PINOLE CA 94564	NNE	0.26 / 1,395.19	23	162
			***Estor/EPA ID	Cleanup Status:*** 60001904 | ACTIVE AS OF 7/16/2013			
36	ENVIROSTOR	APPIAN 80 EXPRESS CLEANERS	1577 TARA HILLS DRIVE PINOLE CA 94564	NNE	0.26 / 1,395.19	23	170
			***Estor/EPA ID	Cleanup Status:*** 60001904 | ACTIVE AS OF 7/16/2013			
37	LUST	TEXACO	1599 TARA HILLS DR PINOLE CA 94564	NNE	0.28 / 1,485.81	36	178
			***Global ID	Status	Status Date:*** T0601300298 | COMPLETED - CASE CLOSED | 5/14/2012		
38	DELISTED HAZ	FOUR MILE CLEANERS	1441 TARA HILLS DR PINOLE CA 94564	N	0.29 / 1,515.00	5	192
39	LUST	BP #11153 (FORMER)	2298 APPIAN WY PINOLE CA 94564	NNE	0.30 / 1,596.39	41	192
			***Global ID	Status	Status Date:*** T0601300038 | COMPLETED - CASE CLOSED | 5/14/2018		
40	LUST	RENT A RACK	1271 TARA HILLS DR PINOLE CA 94564	N	0.30 / 1,601.37	1	215
			***Global ID	Status	Status Date:*** T0601300234 | COMPLETED - CASE CLOSED | 4/8/2014		
41	DELISTED HAZ	Wheel Works #240711	1251 TARA HILLS DR PINOLE CA 94564	N	0.31 / 1,617.63	0	223
41	C&D DEBRIS RECY	O'REILLY AUTO PARTS #3495	1251 TARA HILLS DR PINOLE CA 94564	N	0.31 / 1,617.63	0	223
42	DELISTED HAZ	Pinole Family Dental	1310 TARA HILLS DR STE F PINOLE CA 94564	N	0.32 / 1,671.17	-5	223
43	LUST	SHELL-BRANDED SERVICE STATION	1401 FITZGERALD DRIVE PINOLE CA 94547	WSW	0.32 / 1,700.91	16	223
			***Global ID	Status	Status Date:*** T10000007054 | COMPLETED - CASE CLOSED | 5/22/2020		
44	DELISTED HAZ	Toys"R" Us #5804	1330 FITZGERALD DR PINOLE CA 94564	WSW	0.43 / 2,283.67	57	236
45	ENVIROSTOR	CA AUTISM FOUNDATION, A BETTER CHANCE II	982 MARLESTA ROAD PINOLE CA 94564	N	0.72 / 3,800.55	-21	236

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			Estor/EPA ID* | *Cleanup Status: 07830003 | NO ACTION REQUIRED AS OF 4/12/1995				
46	MRDS	PINOLE DOHRMAN, PAWSEY	CONTRA COSTA COUNTY PINOLE CA 94564	NE	0.85 / 4,486.38	-58	237
			Dep ID: 10029592				
47	SCH	CALIBER: BETA ACADEMY	2465 DOLAN WAY SAN PABLO CA 94806	WNW	0.86 / 4,542.37	-68	238
			Estor/EPA ID* | *Cleanup Status: 60002865 | NO FURTHER ACTION AS OF 4/8/2020				
47	ENVIROSTOR	CALIBER: BETA ACADEMY	2465 DOLAN WAY SAN PABLO CA 94806	WNW	0.86 / 4,542.37	-68	240
			Estor/EPA ID* | *Cleanup Status: 60002865 | NO FURTHER ACTION AS OF 4/8/2020				
48	ENVIROSTOR	MERCURY DRY CLEANERS	2714 PINOLE VALLEY ROAD PINOLE CA 94564	ENE	0.96 / 5,046.03	-159	241
			Estor/EPA ID* | *Cleanup Status: 07720037 | CERTIFIED / OPERATION & MAINTENANCE AS OF 4/9/2008				

Executive Summary: Summary by Data Source

Standard

Federal

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Nov 17, 2021 has found that there are 2 RCRA TSD site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CRESPI MIDDLE SCHOOL	1121 ALLVIEW AVENUE EL SOBRANTE CA 94803 ***EPA Handler ID:*** *CAL000013191*	SSW	0.24 / 1,264.92	34
WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148	1440 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** *CAL000445397*	W	0.24 / 1,282.78	35

RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Nov 17, 2021 has found that there are 1 RCRA SQG site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KIYOHARA CLEANERS	1576 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** *CAD981965718*	ENE	0.12 / 626.98	20

RCRA VSQG - RCRA Very Small Quantity Generators List

A search of the RCRA VSQG database, dated Nov 17, 2021 has found that there are 1 RCRA VSQG site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SAVEMART SUPERMARKETS DBA LUCKY NO 742	1530 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID:*** *CAR000249706*	NE	0.03 / 144.67	6

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Nov 17, 2021 has found that there are 22 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KMART #3531	1500 FITZGERALD DR PINOLE CA 94564-0000 ***EPA Handler ID:*** *CAL000018619*	NE	0.00 / 0.00	1

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KEYME INC	1500 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID**: CAL000437332*	NE	0.00 / 0.00	1
JOHN KIM SALES AND SERVICE DBA PINOLE GOODYEAR	1520 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID**: CAL000421514*	NE	0.03 / 133.82	5
BRIGHT NOW DENTAL A DENTAL OFFICE OF LENG C. HAONG, D.D.S., INC	1477 FITZGERALD DR STE 106 PINOLE CA 94564-2257 ***EPA Handler ID**: CAL000306347*	WNW	0.06 / 343.03	9
BEST BUY STORE #138	1490 FITZGERALD RD PINOLE CA 94564 ***EPA Handler ID**: CAL000425942*	W	0.07 / 387.61	13
AUTOZONE #3312	1475 FITZGERALD DR STE 100 PINOLE CA 94564 ***EPA Handler ID**: CAL000275414*	W	0.08 / 411.26	14
ATHULA WILLATHGAMUWA	964 VALERIE COURT EL SOBRANTE CA 94803 ***EPA Handler ID**: CAC003002322*	SSE	0.10 / 510.84	16
DOLLAR TREE #03178	1598 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID**: CAL000390884*	ENE	0.13 / 686.97	23
PROVIDENT GROCERIES INC DBA PINOLE GROCERY OUTLET	1460 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID**: CAL000417097*	W	0.16 / 863.25	25
VALERO CORNER STORE 3805	2401 APPIAN WAY PINOLE CA 94564-2246 ***EPA Handler ID**: CAL000384050*	ENE	0.17 / 894.24	29
7 ELEVEN 37994	2401 APPIAN WAY PINOLE CA 94564 ***EPA Handler ID**: CAL000418991*	ENE	0.17 / 894.24	29
SUSAN COLE	2510 LYNN DRIVE PINOLE CA 94564 ***EPA Handler ID**: CAC003076365*	ENE	0.20 / 1,054.98	31
MICHAELS STORES INC #4741	1450 FITZGERALD DR PINOLE CA 94564 ***EPA Handler ID**: CAL000371253*	W	0.21 / 1,092.20	32

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
BIG 5 SPORTING GOODS #062	1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	17

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	***EPA Handler ID**: CAL000410134*			
ERIC LIM	1130 ALBERDAN CIRCLE PINOLE CA 94564	NW	0.20 / 1,049.04	30
	***EPA Handler ID**: CAC003095445*			
O'REILLY AUTO PARTS STORE 2833	1442 FITZGERALD DR PINOLE CA 94564	W	0.23 / 1,237.36	33
	***EPA Handler ID**: CAL000392642*			
SABRINA KEYS	1121 ALLVIEW AVE EL SOBRANTE CA 94803-1054	SSW	0.24 / 1,264.92	34
	***EPA Handler ID**: CAC003027325*			
WCCUSD HARBOUR WAY	1121 ALLVIEW AVE EL SOBRANTE CA 94803	SSW	0.24 / 1,264.92	34
	***EPA Handler ID**: CAC002978577*			
CRESPI MIDDLE SCHOOL	1121 ALLVIEW AVENUE EL SOBRANTE CA 94803	SSW	0.24 / 1,264.92	34
	***EPA Handler ID**: CAL000013191*			
WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35
	***EPA Handler ID**: CAL000445397*			
MINUTE KEY INC	1440 FITZGERALD DRIVE PINOLE CA 94564	W	0.24 / 1,282.78	35
	***EPA Handler ID**: CAL000438615*			
ORCHARD SUPPLY COMPANY LLC DBA ORCHARD SUPPLY HARDWARE #0350	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35
	***EPA Handler ID**: CAL000389951*			

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Jan 6, 2022 has found that there are 4 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
APPIAN 80 EXPRESS CLEANERS	1577 TARA HILLS DRIVE PINOLE CA 94564	NNE	0.26 / 1,395.19	36
	***Estor/EPA ID** | **Cleanup Status**: 60001904 | ACTIVE AS OF 7/16/2013*			

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CA AUTISM FOUNDATION, A BETTER CHANCE II	982 MARLESTA ROAD PINOLE CA 94564	N	0.72 / 3,800.55	45

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	***Estor/EPA ID	Cleanup Status**: 07830003	NO ACTION REQUIRED AS OF 4/12/1995*	
CALIBER: BETA ACADEMY	2465 DOLAN WAY SAN PABLO CA 94806	WNW	0.86 / 4,542.37	47
	***Estor/EPA ID	Cleanup Status**: 60002865	NO FURTHER ACTION AS OF 4/8/2020*	
MERCURY DRY CLEANERS	2714 PINOLE VALLEY ROAD PINOLE CA 94564	ENE	0.96 / 5,046.03	48
	***Estor/EPA ID	Cleanup Status**: 07720037	CERTIFIED / OPERATION & MAINTENANCE AS OF 4/9/2008*	

C&D DEBRIS RECY - Construction and Demolition Debris Recyclers

A search of the C&D DEBRIS RECY database, dated Jun 20, 2018 has found that there are 3 C&D DEBRIS RECY site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
AUTOZONE #3312	1475 FITZGERALD DR PINOLE CA 94564	W	0.08 / 411.26	14

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
O'REILLY AUTO PARTS #2833	1442 FITZGERALD DR PINOLE CA 94564	W	0.23 / 1,237.36	33
O'REILLY AUTO PARTS #3495	1251 TARA HILLS DR PINOLE CA 94564	N	0.31 / 1,617.63	41

LUST - Leaking Underground Fuel Tank Reports

A search of the LUST database, dated Jun 22, 2021 has found that there are 5 LUST site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
EXXON	2401 APPIAN WY PINOLE CA 94564	ENE	0.17 / 894.24	29
	***Global ID	Status	Status Date**: T0601300727	COMPLETED - CASE CLOSED	12/13/2001*			
TEXACO	1599 TARA HILLS DR PINOLE CA 94564	NNE	0.28 / 1,485.81	37
	***Global ID	Status	Status Date**: T0601300298	COMPLETED - CASE CLOSED	5/14/2012*			
BP #11153 (FORMER)	2298 APPIAN WY PINOLE CA 94564	NNE	0.30 / 1,596.39	39
	***Global ID	Status	Status Date**: T0601300038	COMPLETED - CASE CLOSED	5/14/2018*			
RENT A RACK	1271 TARA HILLS DR PINOLE CA 94564	N	0.30 / 1,601.37	40
	***Global ID	Status	Status Date**: T0601300234	COMPLETED - CASE CLOSED	4/8/2014*			

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SHELL-BRANDED SERVICE STATION	1401 FITZGERALD DRIVE PINOLE CA 94547	WSW	0.32 / 1,700.91	43
	***Global ID** | **Status** | **Status Date**: T10000007054 | COMPLETED - CASE CLOSED | 5/22/2020*			

UST - Permitted Underground Storage Tank (UST) in GeoTracker

A search of the UST database, dated Oct 17, 2021 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
7-ELEVEN INC. STORE# 37994	2401 Appian Way Pinole CA 94564	ENE	0.17 / 894.24	29
	***Facility ID**: 07-000-770750*			

UST SWEEPS - Statewide Environmental Evaluation and Planning System

A search of the UST SWEEPS database, dated Oct 1, 1994 has found that there are 3 UST SWEEPS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
K MART ENTERPRISES	1500 FITZGERALD DR PINOLE CA	NE	0.00 / 0.00	1
	***C C** | **Status**: I07-000-14432 | INACTIVE* ***Tank ID**: 000001*			
GOODYEAR TIRE	1520 FITZGERALD DR PINOLE CA	NE	0.03 / 133.82	5
	***C C** | **Status**: A07-000-70106 | ACTIVE* ***Tank ID**: 000001*			
EXXON R/S 76141	2401 APPIAN WAY PINOLE CA	ENE	0.17 / 894.24	29
	***C C** | **Status**: I07-000-70750 | INACTIVE* ***Tank ID**: 000001, 000003, 000004, 000002*			

DELISTED TNK - Delisted Storage Tanks

A search of the DELISTED TNK database, dated Jan 13, 2022 has found that there are 1 DELISTED TNK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
VALERO #7-142	2401 APPIAN WAY PINOLE CA 94564	ENE	0.17 / 894.24	29

CERS TANK - California Environmental Reporting System (CERS) Tanks

A search of the CERS TANK database, dated Dec 8, 2021 has found that there are 1 CERS TANK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
7-ELEVEN INC. STORE# 37994	2401 APPIAN WAY PINOLE CA 94564	ENE	0.17 / 894.24	29
	***Site ID**: 165505*			

HIST TANK - Historical Hazardous Substance Storage Container Information - Facility Summary

A search of the HIST TANK database, dated May 27, 1988 has found that there are 1 HIST TANK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KMART ENTERPRISES	1500 FITZGERALD DRIVE PINOLE CA	NE	0.00 / 0.00	1

VCP - Voluntary Cleanup Program

A search of the VCP database, dated Jan 6, 2022 has found that there are 1 VCP site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
APPIAN 80 EXPRESS CLEANERS	1577 TARA HILLS DRIVE PINOLE CA 94564	NNE	0.26 / 1,395.19	36
	***Estor/EPA ID** | **Cleanup Status**: 60001904 | ACTIVE AS OF 7/16/2013*			

County

CUPA CONTRACO - Contra Costa County - CUPA List

A search of the CUPA CONTRACO database, dated Dec 8, 2021 has found that there are 28 CUPA CONTRACO site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KMART #3531	1500 FITZGERALD DR PINOLE CA 94564	NE	0.00 / 0.00	1
KEYME	1500 FITZGERALD DR PINOLE CA 94564	NE	0.00 / 0.00	1
GOODYEAR TIRE & SERVICE	1520 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 133.82	5
BEST BUY #0138	1490 FITZGERALD DR PINOLE CA 94564	W	0.07 / 387.61	13
AUTOZONE #3312	1475 FITZGERALD DR PINOLE CA 94564	W	0.08 / 411.26	14

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PANDA EXPRESS #808	1473 FITZGERALD DR 101 PINOLE CA 94564	W	0.09 / 475.57	15
WENDYS/WINGSTOP	1581 FITZGERALD DR PINOLE CA 94564	ENE	0.12 / 619.24	19
SUN'S CLEANERS	1576 FITZGERALD DR G-1 PINOLE CA 94564	ENE	0.12 / 626.98	20
T-MOBILE WEST, LLC BA11197A	1441 FITZGERALD DR PINOLE CA 94564	W	0.13 / 682.65	22
DOLLAR TREE #03178	1598 FITZGERALD DR PINOLE CA 94564	ENE	0.13 / 686.97	23
PINOLE GROCERY OUTLET	1460 FITZGERALD DR PINOLE CA 94564	W	0.16 / 863.25	25
ANTONI'S PAINTING & DECORATING	1094 KELVIN RD EL SOBRANTE CA 94803	S	0.16 / 868.46	26
CHUCK E CHEESES	1470 FITZGERALD DR PINOLE CA 94564	W	0.16 / 868.72	27
BAKER TRUCKING	1101 KELVIN RD EL SOBRANTE CA 94803	S	0.17 / 881.28	28
7-ELEVEN INC. STORE# 37994	2401 APPIAN WY PINOLE CA 94564	ENE	0.17 / 894.24	29
MICHAELS STORE #4741	1450 FITZGERALD DR PINOLE CA 94564	W	0.21 / 1,092.20	32

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MOUNTAIN MIKES PIZZA	1516 FITZGERALD DR PINOLE CA 94564	NNE	0.01 / 77.22	3

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SIZZLER 1882	1515 FITZGERALD DR PINOLE CA 94564	NNE	0.02 / 91.62	4
LUCKY #742	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	6
WEST CO WASTEWATER DISTRICT	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	7
TACO BELL #2374	1561 FITZGERALD DR PINOLE CA 94564	NE	0.04 / 201.79	8
KFC (KENTUCKY FRIED CHICKEN)	1544 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 345.10	10
PINOLE CARL'S JR.	1550 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 346.24	11
BURGER KING 3217	1571 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 374.88	12
BIG 5 SPORTING GOODS #062	1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	17
O'REILLY AUTO PARTS #2833	1442 FITZGERALD DR PINOLE CA 94564	W	0.23 / 1,237.36	33
WCCUSD/CRESPI MIDDLE SCHOOL	1121 ALLVIEW AVE EL SOBRANTE CA 94803	SSW	0.24 / 1,264.92	34
WESTLAKE HARDWARE #148	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Nov 2, 2020 has found that there are 2 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KMART #3531	1500 FITZGERALD DR PINOLE CA 94564 ***Registry ID**: 110055912213*	NE	0.00 / 0.00	1
KEYME INC	1500 FITZGERALD DR PINOLE CA 94564 ***Registry ID**: 110070483794*	NE	0.00 / 0.00	1

FED DRYCLEANERS - Drycleaner Facilities

A search of the FED DRYCLEANERS database, dated May 5, 2021 has found that there are 2 FED DRYCLEANERS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KIYOHARA CLEANERS	1576 FITZGERALD DR PINOLE CA 94564 ***FRS Facility ID**: 110001157015*	ENE	0.12 / 626.98	20

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SUN'S CLEANERS	1576 FITZGERALD WY PINOLE CA 94564 ***FRS Facility ID**: 110021340244*	ENE	0.11 / 562.71	18

MRDS - Mineral Resource Data System

A search of the MRDS database, dated Mar 15, 2006 has found that there are 1 MRDS site(s) within approximately 1.00 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
PINOLE DOHRMAN, PAWSEY	CONTRA COSTA COUNTY PINOLE CA 94564 ***Dep ID**: 10029592*	NE	0.85 / 4,486.38	46

State

DRYCLEANERS - Dry Cleaning Facilities

A search of the DRYCLEANERS database, dated Dec 20, 2021 has found that there are 3 DRYCLEANERS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
DUTCH MAID CLEANERS	1576 FITZGERALD DR PINOLE CA	ENE	0.12 / 626.98	20
KIYOHARA CLEANERS	1576 FITZGERALD DR PINOLE CA	ENE	0.12 / 626.98	20

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SUN'S CLEANERS	1576 FITZGERALD DR PINOLE CA	ENE	0.12 / 626.98	20

SCH - School Property Evaluation Program Sites

A search of the SCH database, dated Jan 6, 2022 has found that there are 1 SCH site(s) within approximately 1.00 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CALIBER: BETA ACADEMY	2465 DOLAN WAY SAN PABLO CA 94806	WNW	0.86 / 4,542.37	47

Estor/EPA ID | ***Cleanup Status:*** *60002865 | NO FURTHER ACTION AS OF 4/8/2020*

HAZNET - Hazardous Waste Manifest Data

A search of the HAZNET database, dated Oct 24, 2016 has found that there are 2 HAZNET site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
KMART #3531	1500 FITZGERALD DR PINOLE CA 945640000	NE	0.00 / 0.00	1
1X KMART 3531	1500 FITZGERALD DR. PINOLE CA 945640000	NE	0.00 / 0.00	1

CERS HAZ - California Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the CERS HAZ database, dated Dec 8, 2021 has found that there are 12 CERS HAZ site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
GOODYEAR TIRE & SERVICE	1520 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 133.82	5
Best Buy #0138	1490 FITZGERALD DR PINOLE CA 94564	W	0.07 / 387.61	13
AUTOZONE #3312	1475 FITZGERALD DR PINOLE CA 94564	W	0.08 / 411.26	14
Panda Express #808	1473 FITZGERALD DR STE 101 PINOLE CA 94564	W	0.09 / 475.57	15
Wendys/Wingstop	1581 FITZGERALD DR PINOLE CA 94564	ENE	0.12 / 619.24	19

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Mountain Mikes Pizza	1516 FITZGERALD DR PINOLE CA 94564	NNE	0.01 / 77.22	3
LUCKY #742	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	6
WEST CO WASTEWATER DISTRICT	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	7
Taco Bell #2374	1561 FITZGERALD DR PINOLE CA 94564	NE	0.04 / 201.79	8
KFC (Kentucky Fried Chicken)	1544 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 345.10	10
Pinole Carl's Jr.	1550 FITZGERALD DR PINOLE CA 94564	ENE	0.07 / 346.24	11
BIG 5 SPORTING GOODS #062	1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	17

DELISTED HAZ - Delisted Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the DELISTED HAZ database, dated Nov 29, 2018 has found that there are 5 DELISTED HAZ site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FOUR MILE CLEANERS	1441 TARA HILLS DR PINOLE CA 94564	N	0.29 / 1,515.00	38
Toys"R" Us #5804	1330 FITZGERALD DR PINOLE CA 94564	WSW	0.43 / 2,283.67	44

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ORCHARD SUPPLY HARDWARE #0350	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Wheel Works #240711	1251 TARA HILLS DR PINOLE CA 94564	N	0.31 / 1,617.63	41
Pinole Family Dental	1310 TARA HILLS DR STE F PINOLE CA 94564	N	0.32 / 1,671.17	42

EMISSIONS - Toxic Pollutant Emissions Facilities

A search of the EMISSIONS database, dated Dec 31, 2019 has found that there are 11 EMISSIONS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SUN'S CLEANERS	1576 FITZGERALD WAY PINOLE CA 94564	ENE	0.14 / 714.71	24
7- ELEVEN INC. #37994	2401 APPIAN WAY PINOLE CA 94564	ENE	0.17 / 894.24	29

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
LUCKY #742	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	6
ALBERTSONS #7080	1530 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 144.67	6
WEST COUNTY WASTEWATER DISTRIC	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	7
WEST COUNTY WASTEWATER DISTRICT	1541 FITZGERALD DR PINOLE CA 94564	NE	0.03 / 156.46	7
SUN'S CLEANERS	1576 FITZGERALD WY PINOLE CA 94564	ENE	0.11 / 562.71	18
KIYOHARA CLEANERS	1576 FITZGERALD WY PINOLE CA 94564	ENE	0.11 / 562.71	18
ORCHARD SUPPLY COMPANY, LLC - SITE #350	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35

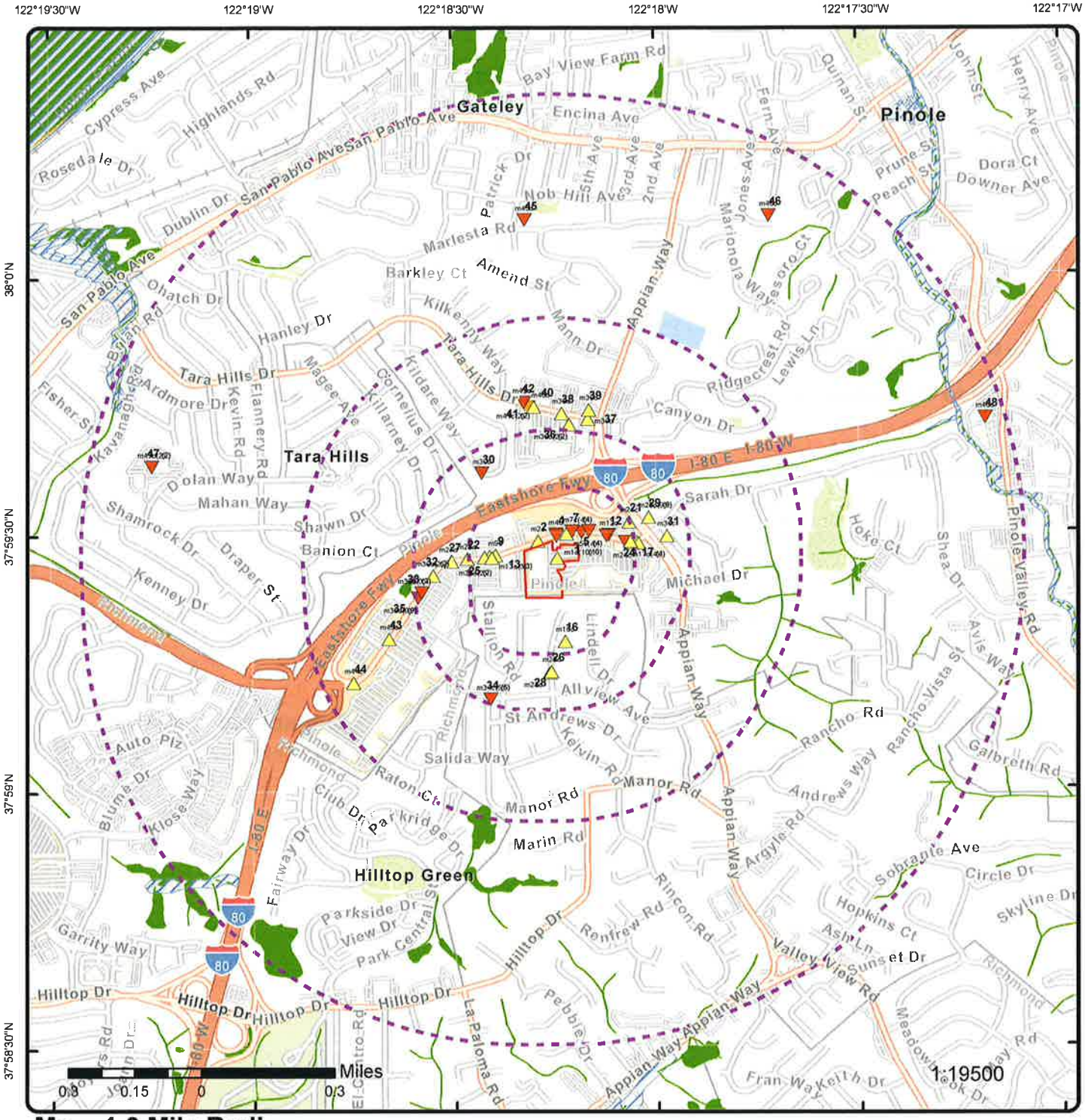
Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ORCHARD SUPPLY HARDWARE	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35
ORCHARD SUPPLY COMPANY, LLC -	1440 FITZGERALD DR PINOLE CA 94564	W	0.24 / 1,282.78	35

CDL - Clandestine Drug Lab Sites

A search of the CDL database, dated Jan 19, 2021 has found that there are 3 CDL site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1501 FITZGERALD DR, RM 151 (MOTEL 6) PINOLE CA 94564	NNW	0.01 / 63.82	2
	2426 APPIAN WAY (PUBLIC STORAGE) PINOLE CA 94564	ENE	0.12 / 659.76	21

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	1572 FITZGERALD DR PINOLE CA 94564	ENE	0.11 / 555.86	17



Map: 1.0 Mile Radius

Order Number: 22011800758

Address: 1500 Fitzgerald Drive, PINOLE, CA

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation
Eris Areas with Higher Elevation
Eris Areas with Same Elevation
Eris Areas with Lower Elevation
Eris Areas with Unknown Elevation
Freeways; Highways
Traffic Circle; Ramp
Major & Minor Arterial
Traffic Circle; Ramp
Local Road
Rail
State
Country
National Priority List Sites
National Wetland
Indian Reserve Land
Historic Fill
100 Year Flood Zone
500 Year Flood Zone
FWS Special Designation Areas
Plume

Source: © 2021 ESRI StreetMap Premium

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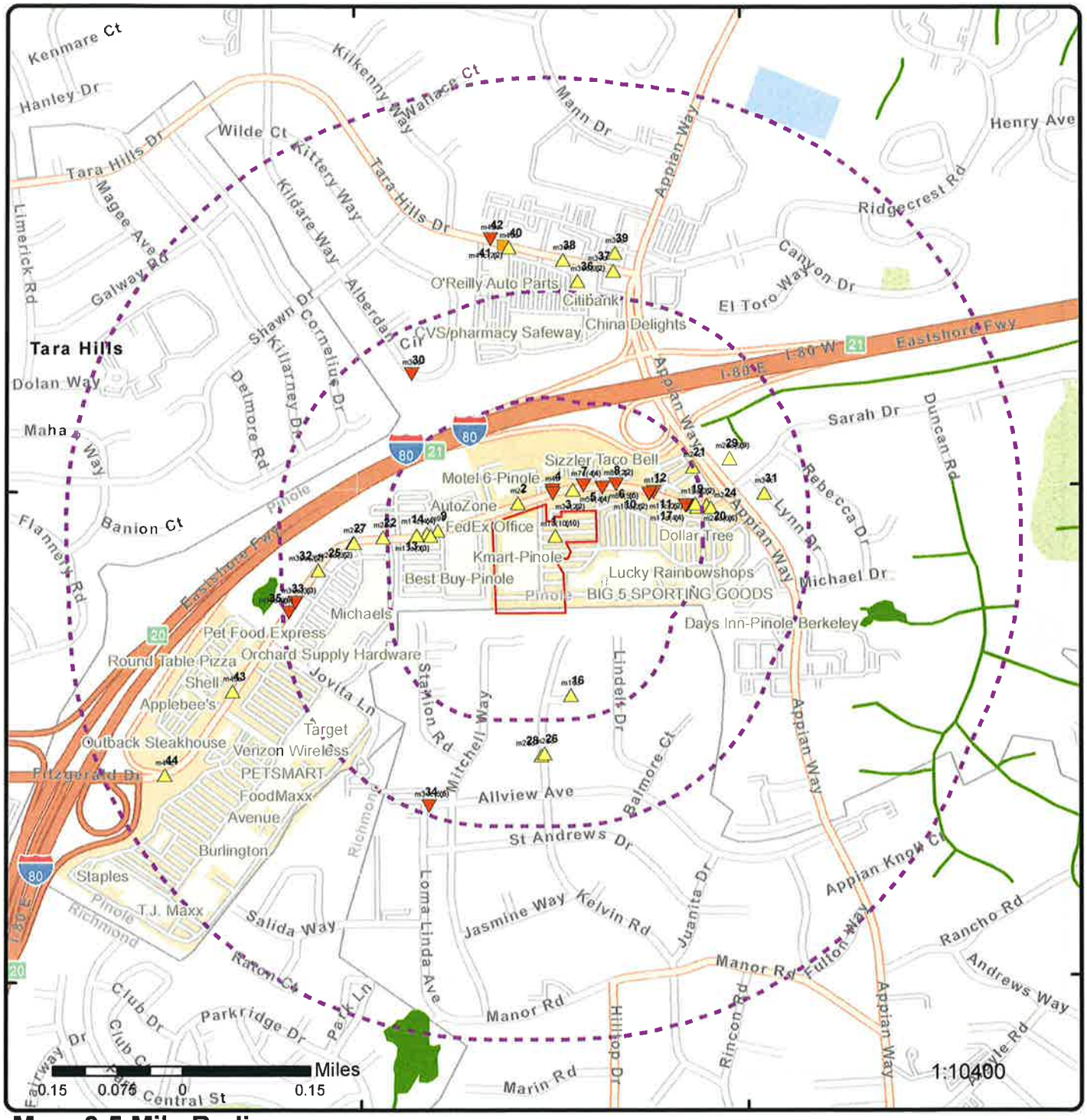

Map: 0.5 Mile Radius

Order Number: 22011800758

Address: 1500 Fitzgerald Drive, PINOLE, CA

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation
Eris Areas with Higher Elevation
Eris Areas with Same Elevation
Eris Areas with Lower Elevation
Eris Areas with Unknown Elevation
Freeways; Highways
Traffic Circle; Ramp
Major & Minor Arterial
Traffic Circle; Ramp
Local Road
Rail
State
Country
National Priority List Sites
National Wetland
Indian Reserve Land
Historic Fill
100 Year Flood Zone
500 Year Flood Zone
FWS Special Designation Areas
Plume

Source: © 2021 ESRI StreetMap Premium

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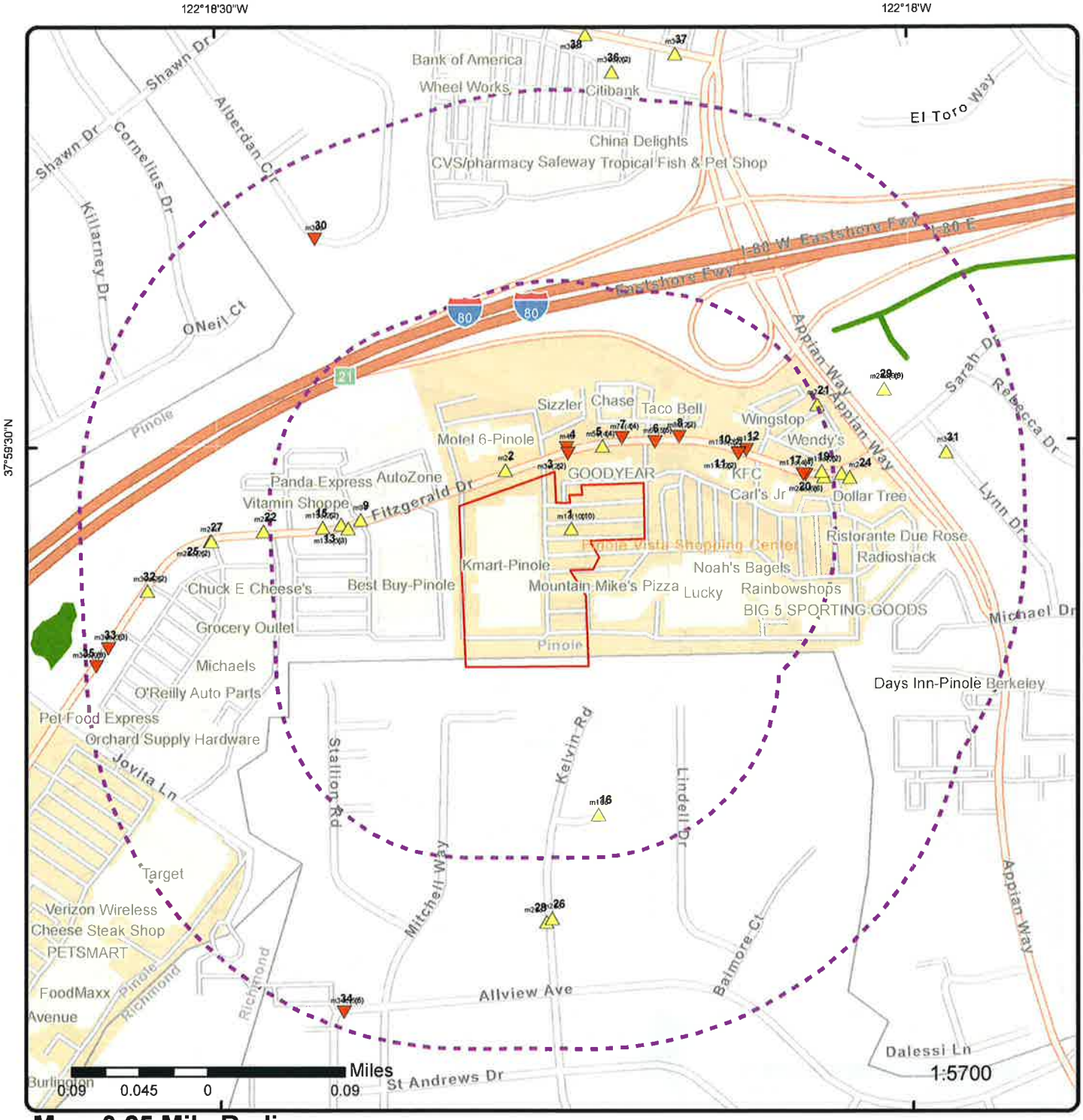

Map: 0.25 Mile Radius

Order Number: 22011800758

Address: 1500 Fitzgerald Drive, PINOLE, CA

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation
Eris Areas with Higher Elevation
Eris Areas with Same Elevation
Eris Areas with Lower Elevation
Eris Areas with Unknown Elevation
Freeways; Highways
Traffic Circle; Ramp
Major & Minor Arterial
Traffic Circle; Ramp
Local Road
Rail
State
Country
National Priority List Sites
National Wetland
Indian Reserve Land
Historic Fill
100 Year Flood Zone
500 Year Flood Zone
FWS Special Designation Areas
Plume

Source: © 2021 ESRI StreetMap Premium

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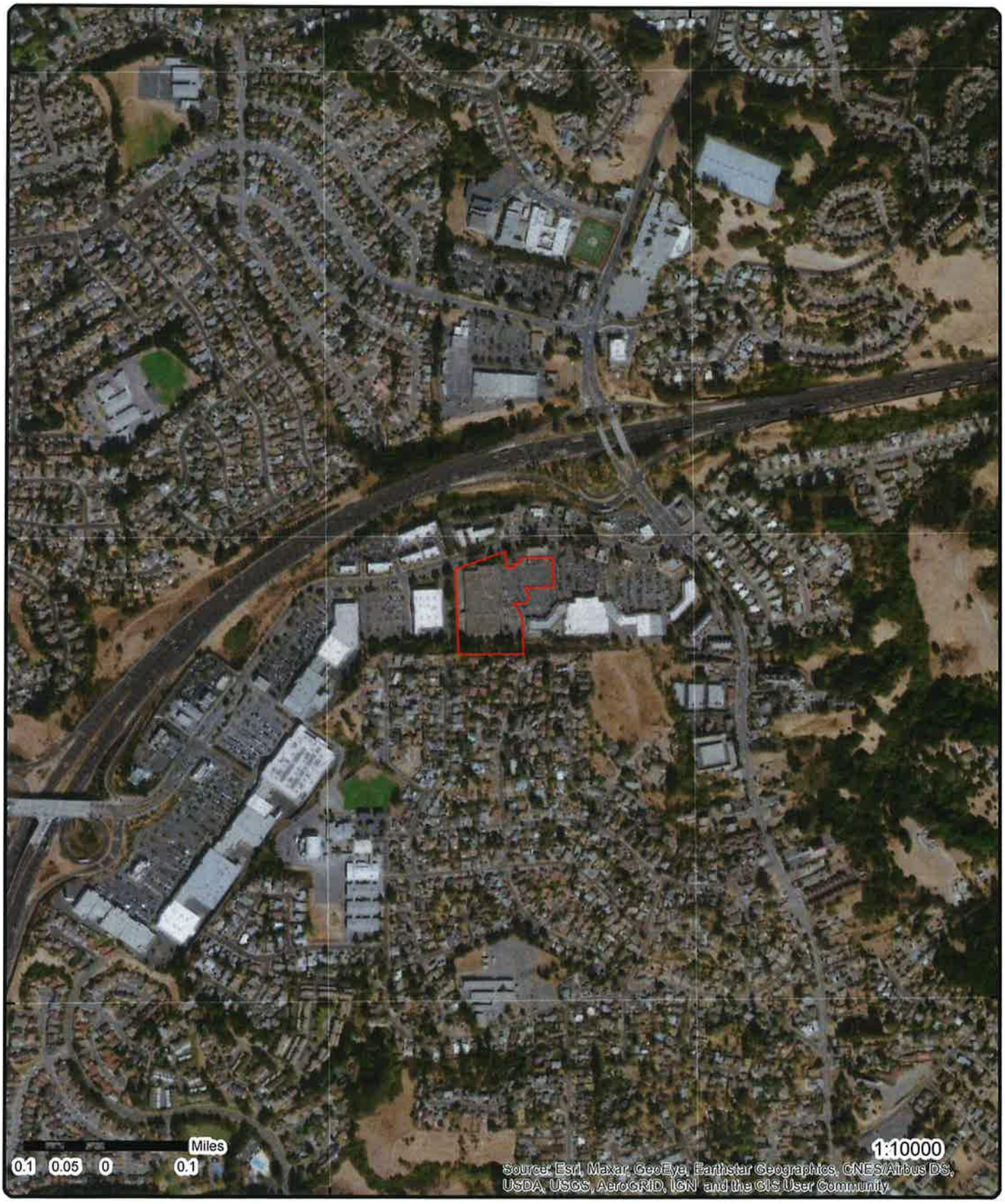

Aerial **Year: 2019**

Order Number: 22011800758

Address: 1500 Fitzgerald Drive, PINOLE, CA

Source: ESRI World Imagery

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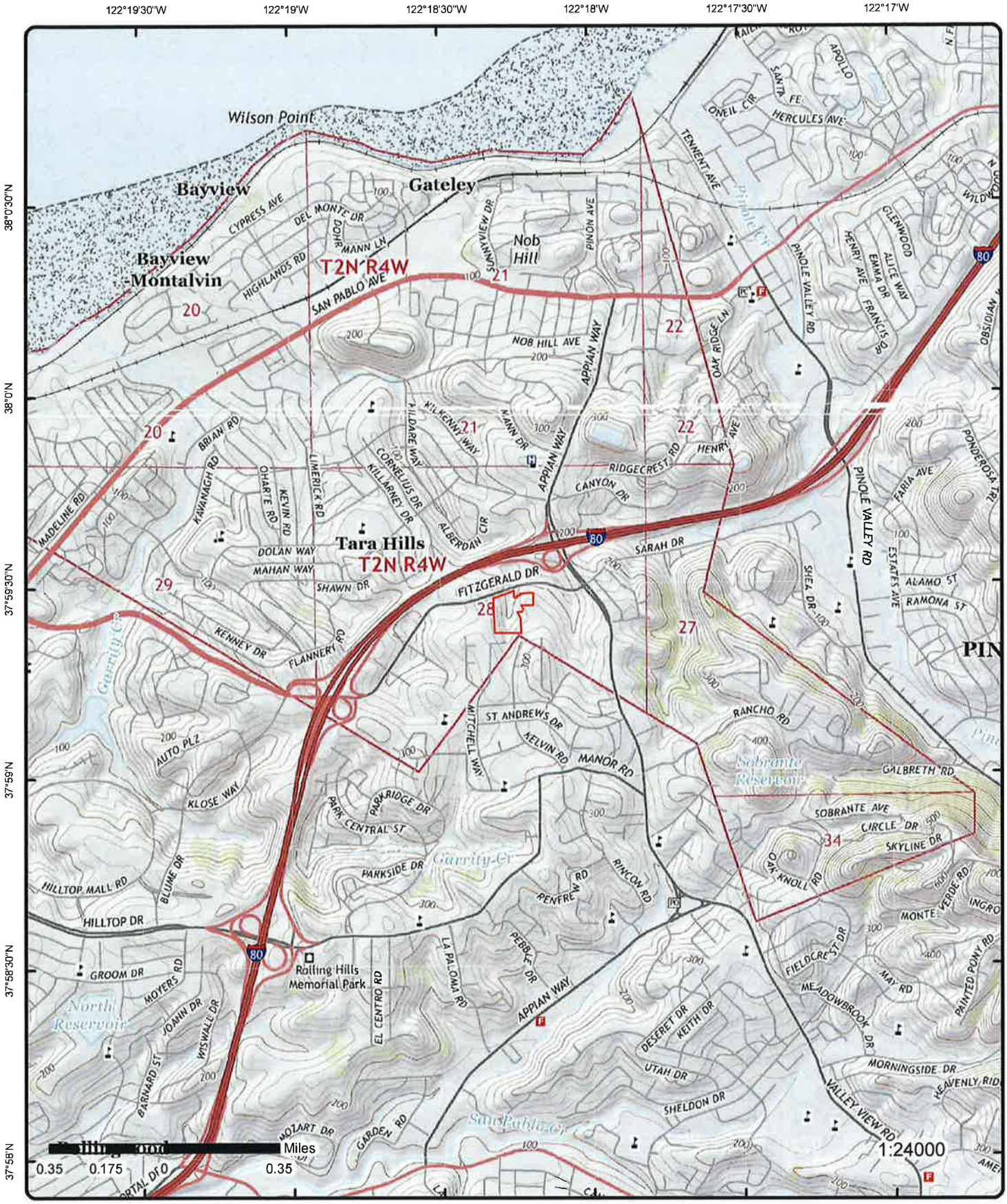

Topographic Map

Year: 2015

Order Number: 22011800758

Address: 1500 Fitzgerald Drive, CA

Quadrangle(s): Richmond, CA; Mare Island, CA

Source: USGS Topographic Map

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Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 10	NE	0.00 / 0.00	207.24 / 11	KMART #3531 1500 FITZGERALD DR PINOLE CA 94564	FINDS/FRS

Registry ID:	110055912213
FIPS Code:	7
HUC Code:	18050002
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	15-SEP-13
Update Date:	12-APR-19
Interest Types:	COMPLIANCE ACTIVITY, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRANSPORTER
SIC Codes:	5311
SIC Code Descriptions:	DEPARTMENT STORES
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	07
Census Block Code:	060133630004003
EPA Region Code:	09
County Name:	CONTRA COSTA
US/Mexico Border Ind:	
Latitude:	37.99093
Longitude:	-122.30662
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055912213
Program Acronyms:	

CA-CERS:10005925, CA-ENVIROVIEW:128126, NCDB:I09#1990071001717 1, RCRAINFO:CAL000018619

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 10	NE	0.00 / 0.00	207.24 / 11	KMART #3531 1500 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0031791
CUPA ID:	714432
CERS ID:	10005925

Detail(s)

Billing Status:	INACTIVE, NON-BILLABLE
Program Element Code:	7101
Program Element:	HWG: LESS THAN 5 TONS/YEAR
Billing Status:	INACTIVE, NON-BILLABLE
Program Element Code:	7203

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Program Element: HMBP: 1K-10K LBS, 20+ EMPLOYEES

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7302
Program Element: UNDERGROUND STORAGE TANK SITE

1	3 of 10	NE	0.00 / 0.00	207.24 / 11	KMART #3531 1500 FITZGERALD DR PINOLE CA 945640000	HAZNET

SIC Code: 5311,5331,5399,5531
NAICS Code: 45211,45299
EPA ID: CAL000018619
Create Date: 11/14/1989
Fac Act Ind: Yes
Inact Date:
County Code: 07
County Name: Contra Costa
Mail Name:
Mailing Addr 1: 3333 BEVERLY RD B5-348A
Mailing Addr 2:
Owner Fax: 8472866786

Mailing City: HOFFMAN ESTATES
Mailing State: IL
Mailing Zip: 601790000
Region Code: 2
Owner Name: KMART CORPORATION
Owner Addr 1: 3333 BEVERLY RD B5-362A
Owner Addr 2:
Owner City: HOFFMAN ESTATES
Owner State: IL
Owner Zip: 601790000
Owner Phone: 8472867222

Contact Information
-- --
Contact Name: CYNTHIA MILLER
Street Address 1: 3333 BEVERLY ROAD, B5-348A
Street Address 2:
City: HOFFMAN ESTATES
State: IL
Zip: 601790000
Phone: 8472860037
-- --
-- --

Tanner Information
-- --
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown
State Waste Code: 122
State Waste Code Desc.: Alkaline solution without metals pH >= 12.5
Method Code: H071
Method Description: CHEMICAL REDUCTION WITH OR WITHOUT PRECIPITATION
Tons: 0.039
Year: 2014
-- --
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown
State Waste Code: 122
State Waste Code Desc.: Alkaline solution without metals pH >= 12.5
Method Code: H121
Method Description: NEUTRALIZATION ONLY
Tons: 0.057
Year: 2013
-- --
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown

State Waste Code:	122
State Waste Code Desc.:	Alkaline solution without metals pH >= 12.5
Method Code:	H121
Method Description:	NEUTRALIZATION ONLY
Tons:	0.006
Year:	2014
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	122
State Waste Code Desc.:	Alkaline solution without metals pH >= 12.5
Method Code:	H121
Method Description:	NEUTRALIZATION ONLY
Tons:	0.0435
Year:	2015
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	CAD008364432
TSD County Code:	19
TSD County:	Los Angeles
State Waste Code:	122
State Waste Code Desc.:	Alkaline solution without metals pH >= 12.5
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.02
Year:	2013
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	H071
Method Description:	CHEMICAL REDUCTION WITH OR WITHOUT PRECIPITATION
Tons:	0.0025
Year:	2013
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	IND093219012
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0065
Year:	2008
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics

Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.01
Year:	2009
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0055
Year:	2011
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.012
Year:	2012
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	H070
Method Description:	
Tons:	0.0305
Year:	2015
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	
Method Description:	
Tons:	0.003
Year:	2008
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	141
State Waste Code Desc.:	Off-specification, aged or surplus inorganics
Method Code:	

Method Description:	
Tons:	
Year:	2009
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	181
State Waste Code Desc.:	Other inorganic solid waste
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.167
Year:	2015
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	IND093219012
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.046
Year:	2008
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.1515
Year:	2009
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0475
Year:	2010
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	H141

Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.027
Year:	2011
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.1155
Year:	2014
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.1355
Year:	2015
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	214
State Waste Code Desc.:	Unspecified solvent mixture
Method Code:	
Method Description:	
Tons:	0.0125
Year:	2008
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	291
State Waste Code Desc.:	Latex waste
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.015
Year:	2012
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	291
State Waste Code Desc.:	Latex waste
Method Code:	H141

Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.1035
Year:	2014
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	CAD008364432
TSD County Code:	19
TSD County:	Los Angeles
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H061
Method Description:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.168
Year:	2013
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H061
Method Description:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.009
Year:	2012
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H121
Method Description:	NEUTRALIZATION ONLY
Tons:	0.035
Year:	2015
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	CAD008364432
TSD County Code:	19
TSD County:	Los Angeles
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0555
Year:	2013
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	CAD980884183
TSD County Code:	34
TSD County:	Sacramento
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)

Tons: 0.0385
Year: 2011
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: AZD081705402
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.0645
Year: 2008
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: IND093219012
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.092
Year: 2008
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: AZD081705402
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.263
Year: 2009
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: AZD081705402
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.0665
Year: 2010
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: AZD081705402
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-

H135)
Tons: 0.1655
Year: 2011
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.3645
Year: 2012
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.2205
Year: 2013
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.3765
Year: 2014
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: NVD980895338
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code: H141
Method Description: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.234
Year: 2015
--
Generator EPA ID: CAL000018619
Generator County Code: 07
Generator County: Contra Costa
TSD EPA ID: AZD081705402
TSD County Code: 99
TSD County: Unknown
State Waste Code: 331
State Waste Code Desc.: Off-specification, aged or surplus organics
Method Code:

Method Description:	
Tons:	0.0285
Year:	2008
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	
Method Description:	
Tons:	
Year:	2012
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	352
State Waste Code Desc.:	Other organic solids
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0625
Year:	2007
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	352
State Waste Code Desc.:	Other organic solids
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0015
Year:	2015
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	352
State Waste Code Desc.:	Other organic solids
Method Code:	
Method Description:	
Tons:	
Year:	2012
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	791
State Waste Code Desc.:	Liquids with pH <= 2
Method Code:	H121
Method Description:	NEUTRALIZATION ONLY
Tons:	0.0095

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Year:	2013
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Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	
State Waste Code Desc.:	
Method Code:	H071
Method Description:	CHEMICAL REDUCTION WITH OR WITHOUT PRECIPITATION
Tons:	0.3385
Year:	2013
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	AZD081705402
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	
State Waste Code Desc.:	
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	
Year:	2011
--	--
Generator EPA ID:	CAL000018619
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	
State Waste Code Desc.:	
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.0115
Year:	2014
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	4 of 10	NE	0.00 / 0.00	207.24 / 11	1X KMART 3531 1500 FITZGERALD DR. PINOLE CA 945640000	HAZNET

SIC Code:		**Mailing City:**	PINOLE
NAICS Code:		**Mailing State:**	CA
EPA ID:	CAD982513228	**Mailing Zip:**	945640000
Create Date:	6/13/1988	**Region Code:**	2
Fac Act Ind:	No	**Owner Name:**	KMART CORPORATION
Inact Date:	1/1/1991	**Owner Addr 1:**	--
County Code:	07	**Owner Addr 2:**	
County Name:	Contra Costa	**Owner City:**	--
Mail Name:		**Owner State:**	99
Mailing Addr 1:	1500 FITZGERALD DR.	**Owner Zip:**	--
Mailing Addr 2:		**Owner Phone:**	0000000000
Owner Fax:			

Contact Information	
--	--
Contact Name:	STEVE FINCH, MANAGER
Street Address 1:	--
Street Address 2:	
City:	--
State:	99

Zip:	--
Phone:	4152225280
--	--
--	--
Tanner Information	
--	--
Generator EPA ID:	CAD982513228
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	WAD991281767
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	123
State Waste Code Desc.:	Unspecified alkaline solution
Method Code:	D80
Method Description:	Disposal, landfill
Tons:	0.0834
Year:	2005
--	--
Generator EPA ID:	CAD982513228
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	291
State Waste Code Desc.:	Latex waste
Method Code:	D80
Method Description:	Disposal, landfill
Tons:	1.14675
Year:	2005
--	--
Generator EPA ID:	CAD982513228
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	WAD991281767
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	291
State Waste Code Desc.:	Latex waste
Method Code:	D80
Method Description:	Disposal, landfill
Tons:	0.3753
Year:	2005
--	--
Generator EPA ID:	CAD982513228
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	NVD980895338
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	T03
Method Description:	Treatment, incineration
Tons:	0.066
Year:	2005
--	--
Generator EPA ID:	CAD982513228
Generator County Code:	07
Generator County:	Contra Costa
TSD EPA ID:	WAD991281767
TSD County Code:	99
TSD County:	Unknown
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	T03
Method Description:	Treatment, incineration
Tons:	0.045

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Year: --		2005 --				
1	5 of 10	NE	0.00 / 0.00	207.24 / 11	KMART ENTERPRISES 1500 FITZGERALD DRIVE PINOLE CA	HIST TANK

Owner Name:	KMART CORPORATION	No of Containers:	1
Owner Street:	P. O. BOX 3150	County:	CONTRA COSTA
Owner City:	TROY	Facility State:	CA
Owner State:	MI	Facility Zip:	94564
Owner Zip:	48084		

1	6 of 10	NE	0.00 / 0.00	207.24 / 11	KEYME 1500 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0041605
CUPA ID:	776142
CERS ID:	10768045

Detail(s)

Billing Status:	INACTIVE, NON-BILLABLE
Program Element Code:	7110
Program Element:	HWG: REPORTED ZERO

1	7 of 10	NE	0.00 / 0.00	207.24 / 11	KEYME INC 1500 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAL000437332
Gen Status Universe:	No Report
Contact Name:	JILL MORGENWECK
Contact Address:	5 PENN PLAZA FL 10 , , NEW YORK , NY, 10001 ,
Contact Phone No and Ext:	888-380-0394
Contact Email:	JILL.MORGENWECK@KEY.ME
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20180703
Location Latitude:	37.990921
Location Longitude:	-122.306362

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20180703
Handler Name:	KEYME INC
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	5 PENN PLAZA FL 10
Name:	JILL MORGENWECK	**Street 2:**	
Date Became Current:		**City:**	NEW YORK
Date Ended Current:		**State:**	NY
Phone:	888-380-0394	**Country:**	
Source Type:	Implementer	**Zip Code:**	10001

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	5 PENN PLAZA FL 10
Name:	KEYME INC	**Street 2:**	
Date Became Current:		**City:**	NEW YORK
Date Ended Current:		**State:**	NY
Phone:	888-380-0394	**Country:**	
Source Type:	Implementer	**Zip Code:**	10001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	8 of 10	NE	0.00 / 0.00	207.24 / 11	KMART #3531 1500 FITZGERALD DR PINOLE CA 94564-0000	RCRA NON GEN

EPA Handler ID:	CAL000018619
Gen Status Universe:	No Report
Contact Name:	JAMES TUNNEY
Contact Address:	3333 BEVERLY ROAD, B5-348A , , HOFFMAN ESTATES , IL, 60179-0000 ,
Contact Phone No and Ext:	847-286-3667
Contact Email:	JAMES.TUNNEY@SEARSHC.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	19891114
Location Latitude:	37.990921
Location Longitude:	-122.306362

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19891114
Handler Name:	KMART #3531
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	3333 BEVERLY RD B5-362A
Name:	KMART CORPORATION	**Street 2:**	
Date Became Current:		**City:**	HOFFMAN ESTATES
Date Ended Current:		**State:**	IL
Phone:	847-286-3667	**Country:**	
Source Type:	Implementer	**Zip Code:**	60179-0000
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	3333 BEVERLY ROAD, B5-348A
Name:	JAMES TUNNEY	**Street 2:**	
Date Became Current:		**City:**	HOFFMAN ESTATES
Date Ended Current:		**State:**	IL
Phone:	847-286-3667	**Country:**	
Source Type:	Implementer	**Zip Code:**	60179-0000

1	9 of 10	NE	0.00 / 0.00	207.24 / 11	KEYME INC 1500 FITZGERALD DR PINOLE CA 94564	FINDS/FRS

Registry ID:	110070483794
FIPS Code:	06013
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	03-JAN-19
Update Date:	
Interest Types:	OTHER HAZARDOUS WASTE ACTIVITIES
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	337215
NAICS Code Descriptions:	SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING.
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	CONTRA COSTA
US/Mexico Border Ind:	
Latitude:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070483794
Program Acronyms:

RCRAINFO:CAL000437332

1	10 of 10	NE	0.00 / 0.00	207.24 / 11	K MART ENTERPRISES 1500 FITZGERALD DR PINOLE CA	UST SWEEPS

C C:	I07-000-14432	**D Filename:**	NSITE7
BOE:	44-002281	**Page No:**	221
Comp:	14432	**County:**	CONTRA COSTA
Status:	INACTIVE	**State :**	CA
No of Tanks:	1	**Zip:**	94564
Jurisdict:	CONTRA COSTA COUNTY	**Latitude:**	37.991832
Agency:	ENVIRONMENTAL HEALTH - U.S.T.	**Longitude:**	-122.30441
Phone:	(415) 223-2214	**Georesult:**	S5HPNTSCZA

Tank Details

Tank ID:	000001	**S Contain:**	NONE
O Tank ID:		**Stg:**	
SWRCB No:	07-000-014432-000001	**Storage :**	WASTE
Removed:	06-26-90	**Storag Type:**	WASTE
Installed:	01-01-81	**P Contain:**	UNKNOWN
A Date:		**Content:**	WASTE OIL
Capac:	1000	**ONA:**	
Tank Use:	OIL	**D File Name:**	NTANK7

2	1 of 1	NNW	0.01 / 63.82	197.18 / 1	1501 FITZGERALD DR, RM 151 (MOTEL 6) PINOLE CA 94564	CDL

Clue: 2000-04-119
Date: 4/22/2000
County: CONTRA COSTA
Lab Type: L
Lab Type Description: Illegal Drug Lab - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

3	1 of 2	NNE	0.01 / 77.22	184.24 / -12	MOUNTAIN MIKES PIZZA 1516 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0041753
CUPA ID: 776192
CERS ID: 10769938

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7201
Program Element: HMBP: LESS THAN 1000 LBS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
3	2 of 2	NNE	0.01 / 77.22	184.24 / -12	Mountain Mikes Pizza 1516 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 442022
Latitude: 37.990470
Longitude: -122.304510
County:

Regulated Programs

EI ID: 10769938 **EI Description:** Chemical Storage Facilities

Violations

Violation Date: 04/12/2021 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/20/2021. OBSERVATION: AS OF April 12, 2021, CCHSHMP HAS NOT RECEIVED/ACCEPTED A COMPLETE AND CORRECT CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) SUBMITTAL FOR THE FOLLOWING SUBMITTAL ELEMENT(S): Facility Information AND/OR Hazardous Materials Inventory AND/OR Emergency Response/Training Plans CORRECTIVE ACTION: IMMEDIATELY LOG ONTO CERS (https://cers.calepa.ca.gov/) AND SUBMIT COMPLETE/CORRECT Facility Information AND OR Hazardous Materials Inventory AND/OR Emergency Response/Training Plans.

Violation Description:

Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Enforcements

Enf Action Date: 04/12/2021 **Enf Action Program:** HMRRP
Enf Action Type: Notice of Violation (Unified Program) **Enf Action Source:** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 01/08/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 04/12/2021
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1516 FITZGERALD DR
City: PINOLE
State: CA
Country:
Zip Code: 94564
Phone:

Affil Type Desc: Parent Corporation
Entity Name: MOUNTAIN MIKES PIZZA
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: RamanDeep Singh
Entity Title:
Address: 1516 FITZGERALD DR
City: PINOLE
State: CA
Country: United States
Zip Code: 94564
Phone: (925) 497-6404

Affil Type Desc: Environmental Contact
Entity Name: RamanDeep Singh
Entity Title:
Address: 1516 FITZGERALD DR
City: PINOLE
State: CA
Country:
Zip Code: 94564
Phone:

Affil Type Desc: Identification Signer
Entity Name: RAMANDEEP SINGH
Entity Title: SECRETARY/OWNER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: ROIC Pinole Vista, LLC
Entity Title:
Address: MS.631099, P.O. Box 3953
City: Seattle
State: WA
Country: United States
Zip Code: 98124
Phone: (858) 255-4906

Affil Type Desc: Operator
Entity Name: RamanDeep Singh
Entity Title:
Address:
City:
State:
Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Zip Code:
Phone: (925) 497-6404

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Document Preparer
Entity Name: sumeet singh
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code: HMBP
Program ID: 10769938
Latitude: 37.990470
Longitude: -122.304510
Coord Name:
Ref Point Type Desc: Center of a facility or station.

4	1 of 1	NNE	0.02 / 91.62	182.27 / -14	SIZZLER 1882 1515 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0045742
CUPA ID: 777091
CERS ID:

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7200
Program Element: HMBP GENERAL

5	1 of 4	NE	0.03 / 133.82	197.45 / 1	GOODYEAR TIRE & SERVICE 1520 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0032660
CUPA ID: 770106
CERS ID: 10008505

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7202
Program Element: HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7302
Program Element: UNDERGROUND STORAGE TANK SITE

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7102
Program Element: HWG: 5 - <12 TONS/YEAR

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	2 of 4	NE	0.03 / 133.82	197.45 / 1	GOODYEAR TIRE & SERVICE 1520 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 33953
Latitude: 37.991168
Longitude: -122.305150
County:

Regulated Programs

EI ID: 10008505 **EI Description:** Hazardous Waste Generator

EI ID: 10008505 **EI Description:** Chemical Storage Facilities

Violations

Violation Date: 12/21/2018 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Contra Costa County Health Services Department
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Notes:

Returned to compliance on 01/14/2019. OBSERVATION: The 100-gallon Poly container of Waste Antifreeze located in the outside storage area was observed without a lid at time of inspection. One of the two 55-gallon drums of Used Oil filters was observed without a lid in the outside storage area. CORRECTIVE ACTION: The Used Oil Filters drum was closed during the inspection. The facility was unable to located the Poly Waste Antifreeze container lid at time of inspection. All waste containers must remain closed when not actively being added to. Provide a lid to the waste antifreeze container and provide CCHS-HMP photo documentation of the container as closed.

Violation Description:

Failure to meet the following container management requirements:
(a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.
(b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

Violations

Violation Date: 10/09/2015 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 10/09/2015.

Violation Description:

Business Plan Program - Administration/Documentation - General

Violations

Violation Date: 12/21/2018 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Contra Costa County Health Services Department
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Notes:

Returned to compliance on 12/21/2018. OBSERVATION: Spilled waste oil and oil filters were observed at the used oil tank. Loose oil filters and oily debris were observed on the ground in the outside storage area. Waste antifreeze was observed collected on the closed lid of the waste antifreeze container located at the northwest container of the shop. CORRECTIVE ACTION: Corrected on site. Facility personnel collected the spilled waste oil, the spilled waste coolant, and the spilled oil filters. Inspector observed all materials properly placed within appropriate containers at time of inspection.

Violation Description:

Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

Violations

Violation Date: 12/21/2018
Violation Source: CERS
Violation Program: HW
Violation Division: Contra Costa County Health Services Department
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 12/21/2018. OBSERVATION: The Used Motor Oil tank on site was found with a damaged, peeling label at time of inspection. CORRECTIVE ACTION: Corrected on site. A new hazardous waste label was applied to the used motor oil tank and properly filled out at time of inspection.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Enforcements

Enf Action Date: 10/09/2015
Enf Action Program: HMRRP
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Source: CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 12/21/2018
Enf Action Program: HW
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Source: CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 10/09/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 12/21/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 12/21/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department

Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 01/15/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 10/09/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Operator
Entity Name: Goodyear Tire Center
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (510) 222-0431

Affil Type Desc: Legal Owner
Entity Name: GOODYEAR TIRE & SERVICE
Entity Title:
Address: 1520 Fitzgerald Drive
City: PINOLE
State: CA
Country: United States
Zip Code: 94564
Phone: (510) 222-0431

Affil Type Desc: Environmental Contact
Entity Name: John JARVIS
Entity Title:
Address: 1520 FITZGERALD DR
City: PINOLE
State: CA
Country:
Zip Code: 94564
Phone:

Affil Type Desc: Identification Signer
Entity Name: john jarvis
Entity Title: manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Name:	Contra Costa County Health Services Department
Entity Title:	
Address:	4585 Pacheco BlvdSuite 100
City:	Martinez
State:	CA
Country:	
Zip Code:	94553
Phone:	(925) 655-3200
Affil Type Desc:	Document Preparer
Entity Name:	john jarvis
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	
Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	1520 Fitzgerald Drive
City:	Pinole
State:	CA
Country:	
Zip Code:	94564
Phone:	
Affil Type Desc:	Parent Corporation
Entity Name:	GOODYEAR TIRE & SERVICE
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Coordinates

Env Int Type Code:	HWG	**Longitude:**	-122.303724
Program ID:	10008505	**Coord Name:**	
Latitude:	37.991619	**Ref Point Type Desc:**	Unknown

5	***3 of 4***	***NE***	***0.03 / 133.82***	***197.45 / 1***	***JOHN KIM SALES AND SERVICE DBA PINOLE GOODYEAR 1520 FITZGERALD DR PINOLE CA 94564***	***RCRA NON GEN***

EPA Handler ID:	CAL000421514
Gen Status Universe:	No Report
Contact Name:	JOHN JARVIS
Contact Address:	1520 FITZGERALD DR , , PINOLE , CA, 94564 ,
Contact Phone No and Ext:	510-222-0431
Contact Email:	JJGDYR@SBCGLOBAL.NET
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20161025
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20161025
Handler Name:	JOHN KIM SALES AND SERVICE DBA PINOLE GOODYEAR
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1520 FITZGERALD DR
Name:	JOHN JARVIS	**Street 2:**	
Date Became Current:		**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	510-222-0431	**Country:**	
Source Type:	Implementer	**Zip Code:**	94564

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	3116 MARTINGALE DR
Name:	JOHN KIM SALES AND SERVICES INC	**Street 2:**	
Date Became Current:		**City:**	DANVILLE
Date Ended Current:		**State:**	CA
Phone:	510-220-0006	**Country:**	
Source Type:	Implementer	**Zip Code:**	94506

5	**4 of 4**	**NE**	**0.03 / 133.82**	**197.45 / 1**	**GOODYEAR TIRE 1520 FITZGERALD DR PINOLE CA**	**UST SWEEPS**

C C:	A07-000-70106	**D Filename:**	SITE05B
BOE:	44-002621	**Page No:**	253
Comp:	70106	**County:**	CONTRA COSTA
Status:	ACTIVE	**State :**	CA
No of Tanks:	1	**Zip:**	94564
Jurisdict:	CONTRA COSTA COUNTY	**Latitude:**	37.991894
Agency:	ENVIRONMENTAL HEALTH - U.S.T.	**Longitude:**	-122.303612
Phone:		**Georesult:**	S5HPNTSCZA

Tank Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tank ID:	000001	**S Contain:**	
O Tank ID:	UG01764	**Stg:**	W
SWRCB No:	07-000-070106-000001	**Storage :**	
Removed:		**Storag Type:**	WASTE
Installed:		**P Contain:**	
A Date:	02-07-92	**Content:**	WASTE OIL
Capac:	550	**ONA:**	
Tank Use:	OIL	**D File Name:**	TANK5B

6	1 of 5	NE	0.03 / 144.67	188.15 / -8	LUCKY #742 1530 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0030135
CUPA ID:	773466
CERS ID:	10018123

Detail(s)

Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7203
Program Element:	HMBP: 1K-10K LBS, 20+ EMPLOYEES
Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7101
Program Element:	HWG: LESS THAN 5 TONS/YEAR

6	2 of 5	NE	0.03 / 144.67	188.15 / -8	LUCKY #742 1530 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID:	131733
Latitude:	37.990444
Longitude:	-122.302670
County:	

Regulated Programs

EI ID:	10018123	**EI Description:**	Hazardous Waste Generator
EI ID:	10018123	**EI Description:**	Chemical Storage Facilities
EI ID:	110054263765	**EI Description:**	US EPA Air Emission Inventory System (EIS)

Violations

Violation Date:	09/04/2015	**Violation Source:**	CERS
Violation Program:	HMRRP	**Violation Division:**	Contra Costa County Health Services Department

Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Notes:

Returned to compliance on 12/17/2015.

Violation Description:

Business Plan Program - Administration/Documentation - General

Violations

Violation Date:	08/16/2013	**Violation Source:**	CERS
Violation Program:	HMRRP	**Violation Division:**	Contra Costa County Health Services

Department

Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 08/16/2013.

Violation Description:

Business Plan Program - Administration/Documentation - General

Enforcements

Enf Action Date: 08/16/2013 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 09/04/2015 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 08/16/2013
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 01/08/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 09/04/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 01/08/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 02/26/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 08/16/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 09/04/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS
Eval Notes:

Eval Date: 02/26/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: FRANK SILVA
Entity Title: SENIOR DIRECTOR OF OPERATIONS
Address: 1800 STANDIFORD AVE
City: MODESTO
State: CA
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: Save Mart Supermarkets
Entity Title:
Address: 1800 Standiford Ave.
City: Modesto
State: CA
Country: United States
Zip Code: 95350
Phone: (209) 577-1600

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez

State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Operator
Entity Name: Save Mart Supermarkets
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (209) 577-1600

Affil Type Desc: Environmental Contact
Entity Name: Gina Nalezny
Entity Title:
Address: 1800 Standiford Ave.
City: Modesto
State: CA
Country:
Zip Code: 95350
Phone:

Affil Type Desc: Property Owner
Entity Name: VERRAGO PROPERTIESNA LLC
Entity Title:
Address: 945 FRONT ST
City: NOVATO
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Document Preparer
Entity Name: Gina Nalezny
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: Gina Nalezny
Entity Title: Manager, EHS
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: SHERRY AEBERSOLD
Entity Title: ENVIRONMENTAL CONTACT
Address: 1800 STANDIFORD AVE
City: MODESTO
State: CA
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: SAVE MART SUPERMARKETS
Entity Title: OPERATOR
Address: 1800 STANDIFORD AVE

City: MODESTO
State: CA
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1800 Standiford Ave.
City: Modesto
State: CA
Country:
Zip Code: 95350
Phone:

Affil Type Desc: Parent Corporation
Entity Name: Save Mart Supermarkets
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: TAIL OPPORTUNITY INVESTMENTS CORP
Entity Title:
Address: 8905 Towne Centre Drive, #108
City: San Diego
State: CA
Country: United States
Zip Code: 92122
Phone: (858) 255-4906

Affil Type Desc: Facility Owner
Entity Name: SAVE MART SUPERMARKETS
Entity Title: OWNER
Address: 1800 STANDIFORD AVE
City: MODESTO
State: CA
Country:
Zip Code:
Phone:

Affil Type Desc: Supervisor
Entity Name: Ruben Perez
Entity Title: Store Manager
Address: 1800 STANDIFORD AVE
City: MODESTO
State: CA
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: ANDREW BUTTERFIELD
Entity Title:
Address: 1800 STANDIFORD AVE
City: MODESTO
State:
Country:
Zip Code:
Phone:

Coordinates

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Env Int Type Code:	FRS-AIR	**Longitude:**	-122.303240
Program ID:	110054263765	**Coord Name:**	
Latitude:	37.991690	**Ref Point Type Desc:**	Unknown

6	3 of 5	NE	0.03 / 144.67	188.15 / -8	ALBERTSONS #7080 1530 FITZGERALD DR PINOLE CA 94564	EMISSIONS

2005 Criteria Data

Facility ID:	14627	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.002
CO:	7	**ROGT:**	.0001828
Air Basin:	SF	**COT:**	0
District:	BA	**NOXT:**	.01
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2005 Toxic Data

Facility ID:	14627	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2006 Criteria Data

Facility ID:	18331	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.002
CO:	7	**ROGT:**	.0001828
Air Basin:	SF	**COT:**	0
District:	BA	**NOXT:**	.01
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2006 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

6	4 of 5	NE	0.03 / 144.67	188.15 / -8	LUCKY #742 1530 FITZGERALD DR PINOLE CA 94564	EMISSIONS

2007 Criteria Data

Facility ID:	18331	***CERR Code:***	
Facility SIC Code:	5411	***TOGT:***	0
CO:	7	***ROGT:***	0
Air Basin:	SF	***COT:***	0
District:	BA	***NOXT:***	.002
COID:	CC	***SOXT:***	0
DISN:	BAY AREA AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

2007 Toxic Data

Facility ID:	18331	***COID:***	CC
Facility SIC Code:	5411	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2008 Criteria Data

Facility ID:	18331	***CERR Code:***	
Facility SIC Code:	5411	***TOGT:***	.001
CO:	7	***ROGT:***	.0000914
Air Basin:	SF	***COT:***	0
District:	BA	***NOXT:***	.002
COID:	CC	***SOXT:***	0
DISN:	BAY AREA AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

2008 Toxic Data

Facility ID:	18331	***COID:***	CC
Facility SIC Code:	5411	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2009 Criteria Data

Facility ID:	18331	***CERR Code:***	
Facility SIC Code:	5411	***TOGT:***	.002
CO:	7	***ROGT:***	.0001828
Air Basin:	SF	***COT:***	0
District:	BA	***NOXT:***	.006
COID:	CC	***SOXT:***	0
DISN:	BAY AREA AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

2009 Toxic Data

Facility ID:	18331	***COID:***	CC
Facility SIC Code:	5411	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		

TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2010 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2011 Criteria Data

Facility ID:	18331	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.001
CO:	7	**ROGT:**	.0000914
Air Basin:	SF	**COT:**	0
District:	BA	**NOXT:**	.004
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2011 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2012 Criteria Data

Facility ID:	18331	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.001
CO:	7	**ROGT:**	.0000914
Air Basin:	SF	**COT:**	0
District:	BA	**NOXT:**	.004
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2012 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2013 Criteria Data

Facility ID:	18331	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.001
CO:	7	**ROGT:**	.0000914
Air Basin:	SF	**COT:**	0
District:	BA	**NOXT:**	.004
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2013 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2014 Criteria Data

Facility ID:	18331	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.000464303
CO:	7	**ROGT:**	
Air Basin:	SF	**COT:**	.000033284
District:	BA	**NOXT:**	.001459991
COID:	CC	**SOXT:**	.00000083
DISN:	BAY AREA AQMD	**PMT:**	.000014605
CHAPIS:		**PM10T:**	.000014605

2014 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2015 Criteria Data

Facility ID:	18331	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.000464303
CO:	7	**ROGT:**	.000235044
Air Basin:	SF	**COT:**	.000033284
District:	BA	**NOXT:**	.001459991
COID:	CC	**SOXT:**	.00000083
DISN:	BAY AREA AQMD	**PMT:**	.000014605
CHAPIS:		**PM10T:**	.000014605

2015 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	

Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Criteria Data

Facility ID:	18331	***CERR CODE:***	
Facility SIC Code:	5411	***TOGT:***	.002251119
CO:	7	***ROGT:***	.0002095791789
Air Basin:	SF	***COT:***	.000161375
District:	BA	***NOXT:***	.007078598
COID:	CC	***SOXT:***	.000004024
DISN:	BAY AREA AQMD	***PMT:***	.00007081
CHAPIS:		***PM10T:***	.00007081

2016 Toxic Data

Facility ID:	18331	***TS:***	
Facility SIC Code:	5411	***HRA:***	
CERR CODE:		***CH Index:***	
COID:	CC	***AH Index:***	
CO:	7	***Air Basin:***	SF
DISN:	BAY AREA AQMD	***District:***	BA
CHAPIS:			

2017 Criteria Data

Facility ID:	18331	***CERR Code:***	
Facility SIC Code:	5411	***TOGT:***	.002251119
CO:	7	***ROGT:***	.0002095791789
Air Basin:	SF	***COT:***	.000161375
District:	BA	***NOXT:***	.007078598
COID:	CC	***SOXT:***	.000004024
DISN:	BAY AREA AQMD	***PMT:***	.00007081
CHAPIS:		***PM10T:***	.00007081

2017 Toxic Data

Facility ID:	18331	***COID:***	CC
Facility SIC Code:	5411	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2018 Criteria Data

Facility ID:	18331	***CERR Code:***	
Facility SIC Code:	5411	***TOGT:***	.000989816
CO:	7	***ROGT:***	.0000921518696
Air Basin:	SF	***COT:***	.000070956
District:	BA	***NOXT:***	.003112459
COID:	CC	***SOXT:***	.000001769
DISN:	BAY AREA AQMD	***PMT:***	.000031135
CHAPIS:		***PM10T:***	.000031135

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2018 Toxic Data

Facility ID:	18331	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2019 Criteria Data

CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
Facility ID:	18331	**ROGT:**	.0000921518696
District:	BA	**COT:**	.000070956
Facility SIC Code:	5411	**NOXT:**	.003112459
CO ID:	CC	**SOXT:**	.000001769
DISN:	BAY AREA AQMD		
PM10T:	.000031135		
TOGT:	.000989816		
PMT:	.000031135		

2019 Toxic Data

CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
Faccility ID:	18331	**TS:**	
District:	BA	**Health Risk Asmt:**	
Facility SIC Code:	5411	**NonCncrChrnicHazInd:**	
COID:	CC	**NonCncrActeHazInd:**	
DISN:	BAY AREA AQMD		

6	5 of 5	NE	0.03 / 144.67	188.15 / -8	SAVEMART SUPERMARKETS DBA LUCKY NO 742 1530 FITZGERALD DR PINOLE CA 94564	RCRA VSQG

EPA Handler ID:	CAR000249706
Gen Status Universe:	VSG
Contact Name:	TAMMY SIBBIT
Contact Address:	1530 , FITZGERALD DR , , PINOLE , CA, 94564 , US
Contact Phone No and Ext:	2095746299 6373
Contact Email:	TAMMY.SIBBITT@SAVEMART.COM
Contact Country:	US
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	Private
Receive Date:	20180912
Location Latitude:	37.990625
Location Longitude:	-122.308881

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated Nov, 2021.

Evaluation Details

Evaluation Start Date: 20150904

Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20140918
Handler Name: SAVEMART SUPERMARKETS DBA LUCKY NO 742
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: 131
Waste Code Description: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

Hazardous Waste Code: 214
Waste Code Description: Unspecified solvent mixture

Hazardous Waste Code: 311
Waste Code Description: Pharmaceutical waste

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: D010
Waste Code Description: SELENIUM

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: P001
Waste Code Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Hazardous Waste Code: P075
Waste Code Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180228
Handler Name: SAVEMART SUPERMARKETS DBA LUCKY NO 742
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: 141
Waste Code Description: Off-specification, aged, or surplus inorganics

Hazardous Waste Code: 214
Waste Code Description: Unspecified solvent mixture

Hazardous Waste Code: 311
Waste Code Description: Pharmaceutical waste

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D007
Waste Code Description: CHROMIUM

Hazardous Waste Code: D010
Waste Code Description: SELENIUM

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: P001
Waste Code Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20180912
Handler Name: SAVEMART SUPERMARKETS DBA LUCKY NO 742
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: 141
Waste Code Description: Off-specification, aged, or surplus inorganics

Hazardous Waste Code: 214
Waste Code Description: Unspecified solvent mixture

Hazardous Waste Code: 311
Waste Code Description: Pharmaceutical waste

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D007
Waste Code Description: CHROMIUM

Hazardous Waste Code: D010
Waste Code Description: SELENIUM

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: P001
Waste Code Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	1530
Type:	Private	**Street 1:**	FITZGERALD DR
Name:	LUCKY #742	**Street 2:**	
Date Became Current:	20070223	**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	209-574-6299	**Country:**	US
Source Type:	Notification	**Zip Code:**	94564

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	945 FRONT ST
Name:	VERRAGO PROPERTIES LLC BRNK	**Street 2:**	
Date Became Current:	20130726	**City:**	NOVATO
Date Ended Current:		**State:**	CA
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	94945

Owner/Operator Ind:	Current Owner	**Street No:**	1530
Type:	Private	**Street 1:**	FITZGERALD DR
Name:	SAVE MART SUPERMARKETS	**Street 2:**	
Date Became Current:	20070223	**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	209-574-6299	**Country:**	US
Source Type:	Notification	**Zip Code:**	94564

Owner/Operator Ind:	Current Operator	**Street No:**	1530
Type:	Private	**Street 1:**	FITZGERALD DR
Name:	LUCKY #742	**Street 2:**	
Date Became Current:	20070223	**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	209-574-6299	**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	94564-0000

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Private	**Street 1:**	
Name:	SAVEMART SUPERMARKETS DBA LUCKY NO 742	**Street 2:**	
Date Became Current:	20140512	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Notification	**Zip Code:**	

Owner/Operator Ind:	Current Owner	**Street No:**	1530
Type:	Private	**Street 1:**	FITZGERALD DR
Name:	SAVE MART SUPERMARKETS	**Street 2:**	
Date Became Current:	20070223	**City:**	PINOLE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Date Ended Current:
Phone: 209-574-6299
Source Type: Annual/Biennial Report update with Notification
State: CA
Country: US
Zip Code: 94564-0000

Historical Handler Details

Receive Dt: 20180228
Generator Code Description: Large Quantity Generator
Handler Name: SAVEMART SUPERMARKETS DBA LUCKY NO 742

Receive Dt: 20140918
Generator Code Description: Large Quantity Generator
Handler Name: SAVEMART SUPERMARKETS DBA LUCKY NO 742

7	1 of 4	NE	0.03 / 156.46	194.12 / -2	WEST CO WASTEWATER DISTRICT 1541 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0029236
CUPA ID: 772551
CERS ID: 10015423

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7202
Program Element: HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7100
Program Element: HWG GENERAL

7	2 of 4	NE	0.03 / 156.46	194.12 / -2	WEST CO WASTEWATER DISTRICT 1541 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 85179
Latitude: 37.992065
Longitude: -122.303500
County:

Regulated Programs

EI ID: 10015423
EI Description: Chemical Storage Facilities

Violations

Violation Date: 02/13/2015
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 03/18/2015.

Violation Description:

Business Plan Program - Training - General

Violations

Violation Date: 12/17/2019
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/19/2019. OBSERVATION: The business failed to complete and electronically submit correct chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Complete and electronically submit the chemical inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Enforcements

Enf Action Date: 12/17/2019
Enf Action Program: HMRRP
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Source: CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 02/13/2015
Enf Action Program: HMRRP
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Source: CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 12/08/2017
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 02/13/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/17/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/18/2015
Violations Found: No

Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/23/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Document Preparer
Entity Name: JOE NEUGEBAUER
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: JOE NEUGEBAUER
Entity Title:
Address: 2910 HILLTOP DR
City: RICHMOND
State: CA
Country:
Zip Code: 94806-1974
Phone:

Affil Type Desc: Legal Owner
Entity Name: WEST CO WASTEWATER
Entity Title:
Address: 2910 Hilltop Dr.
City: RICHMOND
State: CA
Country: United States
Zip Code: 94806
Phone: (510) 222-6700

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Parent Corporation
Entity Name: WEST CO WASTEWATER DISTRICT
Entity Title:
Address:
City:
State:
Country:
Zip Code:

Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 2377 Garden Tract Rd.
City: Richmond
State: CA
Country:
Zip Code: 94801
Phone:

Affil Type Desc: Identification Signer
Entity Name: AARON WINER
Entity Title: WATER QUALITY & RESOURCE RECOVERY DEPT. MANAGER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: WEST COUNTY WASTEWATER
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (510) 237-6603

Affil Type Desc: Property Owner
Entity Name: WEST COUNTY WASTEWATER DISTRICT
Entity Title:
Address: 2910 HILLTOP DR.
City: Richmond
State: CA
Country: United States
Zip Code: 94806
Phone: (510) 237-6603

Coordinates

Env Int Type Code:	HMBP	**Longitude:**	-122.303482
Program ID:	10015423	**Coord Name:**	
Latitude:	37.992065	**Ref Point Type Desc:**	Unknown

7	3 of 4	NE	0.03 / 156.46	194.12 / -2	WEST COUNTY WASTEWATER DISTRIC 1541 FITZGERALD DR PINOLE CA 94564	EMISSIONS

2006 Criteria Data

Facility ID:	14155	**CERR Code:**	
Facility SIC Code:	4952	**TOGT:**	.001
CO:	7	**ROGT:**	.0008367
Air Basin:	SF	**COT:**	.002
District:	BA	**NOXT:**	.01
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	.001
CHAPIS:		**PM10T:**	.000976

2006 Toxic Data

Facility ID:	14155	**COID:**	CC
Facility SIC Code:	4952	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2007 Criteria Data

Facility ID:	14155	**CERR Code:**	
Facility SIC Code:	4952	**TOGT:**	.001
CO:	7	**ROGT:**	.0008367
Air Basin:	SF	**COT:**	.003
District:	BA	**NOXT:**	.014
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	.001
CHAPIS:		**PM10T:**	.000976

2007 Toxic Data

Facility ID:	14155	**COID:**	CC
Facility SIC Code:	4952	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2008 Criteria Data

Facility ID:	14155	**CERR Code:**	
Facility SIC Code:	4952	**TOGT:**	.001
CO:	7	**ROGT:**	.0008367
Air Basin:	SF	**COT:**	.003
District:	BA	**NOXT:**	.014
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	.001
CHAPIS:		**PM10T:**	.000976

2008 Toxic Data

Facility ID:	14155	**COID:**	CC
Facility SIC Code:	4952	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2009 Criteria Data

Facility ID:	14155	**CERR Code:**	
Facility SIC Code:	4952	**TOGT:**	0
CO:	7	**ROGT:**	0

Air Basin:	SF	**COT:**	.001
District:	BA	**NOXT:**	.005
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2009 Toxic Data

Facility ID:	14155	**COID:**	CC
Facility SIC Code:	4952	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2010 Toxic Data

Facility ID:	14155	**COID:**	CC
Facility SIC Code:	4952	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2011 Criteria Data

Facility ID:	14155	**CERR Code:**	
Facility SIC Code:	4952	**TOGT:**	0
CO:	7	**ROGT:**	0
Air Basin:	SF	**COT:**	.001
District:	BA	**NOXT:**	.004
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

2011 Toxic Data

Facility ID:	14155	**COID:**	CC
Facility SIC Code:	4952	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2012 Criteria Data

Facility ID:	14155	**CERR Code:**	
Facility SIC Code:	4952	**TOGT:**	0
CO:	7	**ROGT:**	0
Air Basin:	SF	**COT:**	.001
District:	BA	**NOXT:**	.004
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2012 Toxic Data

Facility ID:	14155	COID:	CC
Facility SIC Code:	4952	DISN:	BAY AREA AQMD
CO:	7	CHAPIS:	
Air Basin:	SF	CERR Code:	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2013 Criteria Data

Facility ID:	14155	CERR Code:	
Facility SIC Code:	4952	TOGT:	0
CO:	7	ROGT:	0
Air Basin:	SF	COT:	.001
District:	BA	NOXT:	.004
COID:	CC	SOXT:	0
DISN:	BAY AREA AQMD	PMT:	0
CHAPIS:		PM10T:	0

2013 Toxic Data

Facility ID:	14155	COID:	CC
Facility SIC Code:	4952	DISN:	BAY AREA AQMD
CO:	7	CHAPIS:	
Air Basin:	SF	CERR Code:	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

7	4 of 4	NE	0.03 / 156.46	194.12 / -2	WEST COUNTY WASTEWATER DISTRICT 1541 FITZGERALD DR PINOLE CA 94564	EMISSIONS

2014 Criteria Data

Facility ID:	14155	CERR Code:	
Facility SIC Code:	4952	TOGT:	.00047288
CO:	7	ROGT:	
Air Basin:	SF	COT:	.001428
District:	BA	NOXT:	.006568498
COID:	CC	SOXT:	.000003045
DISN:	BAY AREA AQMD	PMT:	.00048897
CHAPIS:		PM10T:	.000469411

2014 Toxic Data

Facility ID:	14155	COID:	CC
Facility SIC Code:	4952	DISN:	BAY AREA AQMD
CO:	7	CHAPIS:	
Air Basin:	SF	CERR Code:	
District:	BA		
TS:			
Health Risk Asmt:			

Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2015 Criteria Data

Facility ID:	14155	***CERR Code:***	
Facility SIC Code:	4952	***TOGT:***	.00047288
CO:	7	***ROGT:***	.000460391
Air Basin:	SF	***COT:***	.001428
District:	BA	***NOXT:***	.006568498
COID:	CC	***SOXT:***	.000003045
DISN:	BAY AREA AQMD	***PMT:***	.00048897
CHAPIS:		***PM10T:***	.000469411

2015 Toxic Data

Facility ID:	14155	***COID:***	CC
Facility SIC Code:	4952	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Criteria Data

Facility ID:	14155	***CERR CODE:***	
Facility SIC Code:	4952	***TOGT:***	.000476258
CO:	7	***ROGT:***	.000418392653
Air Basin:	SF	***COT:***	.0014382
District:	BA	***NOXT:***	.006615415
COID:	CC	***SOXT:***	.000003067
DISN:	BAY AREA AQMD	***PMT:***	.000094477
CHAPIS:		***PM10T:***	.000090698

2016 Toxic Data

Facility ID:	14155	***TS:***	
Facility SIC Code:	4952	***HRA:***	
CERR CODE:		***CH Index:***	
COID:	CC	***AH Index:***	
CO:	7	***Air Basin:***	SF
DISN:	BAY AREA AQMD	***District:***	BA
CHAPIS:			

2017 Criteria Data

Facility ID:	14155	***CERR Code:***	
Facility SIC Code:	4952	***TOGT:***	.000476258
CO:	7	***ROGT:***	.000418392653
Air Basin:	SF	***COT:***	.0014382
District:	BA	***NOXT:***	.006615415
COID:	CC	***SOXT:***	.000003067
DISN:	BAY AREA AQMD	***PMT:***	.000094477
CHAPIS:		***PM10T:***	.000090698

2017 Toxic Data

Facility ID:	14155	***COID:***	CC
Facility SIC Code:	4952	***DISN:***	BAY AREA AQMD

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CO: 7
Air Basin: SF
District: BA
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
CHAPIS:
CERR Code:

2018 Criteria Data

Facility ID: 14155
Facility SIC Code: 4952
CO: 7
Air Basin: SF
District: BA
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:
TOGT: .000476574
ROGT: .000418670259
COT: .001439154
NOXT: .006619805
SOXT: .000003069
PMT: .00009454
PM10T: .000090758

2018 Toxic Data

Facility ID: 14155
Facility SIC Code: 4952
CO: 7
Air Basin: SF
District: BA
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:

2019 Criteria Data

CO: 7
Air Basin: SF
Facility ID: 14155
District: BA
Facility SIC Code: 4952
CO ID: CC
DISN: BAY AREA AQMD
PM10T: .000090758
TOGT: .000476574
PMT: .00009454
CHAPIS:
CERR Code:
ROGT: .000418670259
COT: .001439154
NOXT: .006619805
SOXT: .000003069

2019 Toxic Data

CO: 7
Air Basin: SF
Faccility ID: 14155
District: BA
Facility SIC Code: 4952
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:
TS:
Health Risk Asmt:
NonCncrChrnicHazInd
:
NonCncrActeHazInd:

8	1 of 2	NE	0.04 / 201.79	181.41 / -15	TACO BELL #2374 1561 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0041350
CUPA ID: 776116
CERS ID: 10763494

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7201
Program Element: HMBP: LESS THAN 1000 LBS

8	2 of 2	NE	0.04 / 201.79	181.41 / -15	Taco Bell #2374 1561 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 438634
Latitude: 37.991950
Longitude: -122.302760
County:

Regulated Programs

EI ID: 10763494 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 04/21/2021
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/04/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: Andrew Hernandez
Entity Title:
Address: 4709 Mangels blvd
City: Fairfield
State: CA
Country:
Zip Code: 94534
Phone:

Affil Type Desc: Legal Owner
Entity Name: PRB Management, LLC
Entity Title:
Address: 4709 Mangels Blvd
City: Fairfield
State: CA
Country: United States
Zip Code: 94534
Phone: (707) 864-2919

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Title:
Address: 4709 Mangels blvd
City: Fairfield
State: CA
Country:
Zip Code: 94534
Phone:

Affil Type Desc: Document Preparer
Entity Name: Travis L Howard
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: PRB Management, LLC
Entity Title:
Address: 5816 Amnest Way
City: Sacramento
State: CA
Country: United States
Zip Code: 95835
Phone: (707) 864-2919

Affil Type Desc: Operator
Entity Name: PRB Managment, LLC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (707) 864-2919

Affil Type Desc: Identification Signer
Entity Name: Travis L Howard
Entity Title: District Manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Parent Corporation
Entity Name: Taco Bell #2374
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Coordinates

Env Int Type Code:	HMBP	**Longitude:**	-122.302760
Program ID:	10763494	**Coord Name:**	
Latitude:	37.991950	**Ref Point Type Desc:**	Center of a facility or station.

9	1 of 1	WNW	0.06 / 343.03	263.75 / 67	BRIGHT NOW DENTAL A DENTAL OFFICE OF LENG C. HAONG, D.D. S., INC 1477 FITZGERALD DR STE 106 PINOLE CA 94564-2257	RCRA NON GEN

EPA Handler ID:	CAL000306347
Gen Status Universe:	No Report
Contact Name:	JOYCE NEWMAN
Contact Address:	100 SPECTRUM CENTER DRIVE #1500 , , IRVINE , CA, 92618 ,
Contact Phone No and Ext:	714-428-1213
Contact Email:	JOYCE.NEWMAN@SMILEBRANDS.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20060508
Location Latitude:	37.990956
Location Longitude:	-122.306888

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20060508
Handler Name:	BRIGHT NOW DENTAL A DENTAL OFFICE OF LENG C. HAONG, D.D.S., INC
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	100 SPECTRUM CENTER DR STE 1500
Name:	LENG C. HAONG, D.D.S., INC.	**Street 2:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Date Became Current:		**City:**	IRVINE
Date Ended Current:		**State:**	CA
Phone:	714-668-1300	**Country:**	
Source Type:	Implementer	**Zip Code:**	92618-4935
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	100 SPECTRUM CENTER DRIVE #1500
Name:	JOYCE NEWMAN	**Street 2:**	
Date Became Current:		**City:**	IRVINE
Date Ended Current:		**State:**	CA
Phone:	714-428-1213	**Country:**	
Source Type:	Implementer	**Zip Code:**	92618

10	1 of 2	ENE	0.07 / 345.10	181.56 / -15	KFC (KENTUCKY FRIED CHICKEN) 1544 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0037651
CUPA ID:	775213
CERS ID:	10661167

Detail(s)

Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7201
Program Element:	HMBP: LESS THAN 1000 LBS

10	2 of 2	ENE	0.07 / 345.10	181.56 / -15	KFC (Kentucky Fried Chicken) 1544 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID:	364835
Latitude:	37.991188
Longitude:	-122.302246
County:	

Regulated Programs

EI ID:	10661167	**EI Description:**	Chemical Storage Facilities

Violations

Violation Date:	08/11/2016	**Violation Source:**	CERS
Violation Program:	HMRRP	**Violation Division:**	Contra Costa County Health Services Department

Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Notes:

Returned to compliance on 09/09/2016.

Violation Description:

Business Plan Program - Administration/Documentation - General

Enforcements

Enf Action Date:	08/11/2016	**Enf Action Program:**	HMRRP
Enf Action Type:	Notice of Violation (Unified Program)	**Enf Action Source:**	CERS

Enf Action Division: Contra Costa County Health Services Department

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

Enf Action Notes:

Evaluations

Eval Date: 08/11/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 05/09/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 09/12/2016
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Environmental Contact
Entity Name: Lourdes Fajardo
Entity Title:
Address: 2846 Volpey Way
City: Union City
State: CA
Country:
Zip Code: 94587
Phone:

Affil Type Desc: Document Preparer
Entity Name: Ken Fujitani
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Name:	Mailing Address
Entity Title:	
Address:	2846 Volpey Way
City:	Union City
State:	CA
Country:	
Zip Code:	94587
Phone:	

Affil Type Desc:	Identification Signer
Entity Name:	Ken Fujitani
Entity Title:	Area Consultant
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Parent Corporation
Entity Name:	Kentucky Fried Chicken (KFC)
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Operator
Entity Name:	Marenco 170
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(510) 326-4412

Affil Type Desc:	Legal Owner
Entity Name:	Marenco 170
Entity Title:	
Address:	1544 Fitzgerald Dr
City:	Pinole
State:	CA
Country:	United States
Zip Code:	94564
Phone:	(510) 326-4421

Coordinates

Env Int Type Code:	HMBP	**Longitude:**	-122.302250
Program ID:	10661167	**Coord Name:**	
Latitude:	37.991190	**Ref Point Type Desc:**	Center of a facility or station.

11	*1 of 2*	*ENE*	*0.07 / 346.24*	*181.56 / -15*	*PINOLE CARL'S JR. 1550 FITZGERALD DR PINOLE CA 94564*	*CUPA CONTRACO*

Facility ID:	FA0039809
CUPA ID:	775489
CERS ID:	10739401

Detail(s)

Billing Status:	ACTIVE, BILLABLE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Program Element Code: 7201
Program Element: HMBP: LESS THAN 1000 LBS

11	2 of 2	ENE	0.07 / 346.24	181.56 / -15	Pinole Carl's Jr. 1550 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 426064
Latitude: 37.991102
Longitude: -122.301358
County:

Regulated Programs

EI ID: 10739401 **EI Description:** Chemical Storage Facilities

Violations

Violation Date: 03/14/2018 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/22/2018. OBSERVATION: The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. A 1,200 lb container of used oil was observed in the dumpster area. CORRECTIVE ACTION: Complete and electronically submit the chemical inventory information for used fry oil and put its location on the map.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 03/27/2018 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/03/2018.

Violation Description:

Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 03/14/2018 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/22/2018. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 03/14/2018
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/03/2018. OBSERVATION: PLEASE CORRECT THE PRIMARY EMERGENCY CONTACT PHONE NUMBER (EMERGENCY) - THERE IS A DIGIT MISSING. CORRECTIVE ACTION: Complete and electronically submit the Business Owner Operator Identification Page.

Violation Description:

Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Violations

Violation Date: 08/22/2018
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/22/2018. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with loading areas and sewage drains.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 03/14/2018
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/03/2018. OBSERVATION: The Emergency response plan is incomplete PLEASE ENTER THE LOCAL UNIFIED PROGRAM AGENCY (WHICH IS US) PHONE NUMBER (925)335-3232. CORRECTIVE ACTION: Complete and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material within 30 days and keep a copy of all 4 pages on site. The facility only had page 3 available.

Violation Description:

Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.

Violations

Violation Date: 08/22/2018
Violation Program: HMRRP
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/22/2018. OBSERVATION: The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Complete and electronically submit the chemical

inventory for the used fry oil.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Enforcements

Enf Action Date: 03/14/2018 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 03/27/2018 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 08/22/2018 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 08/22/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 08/22/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/14/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/27/2018
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department

Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1813 4th St.
City: Livermore
State: CA
Country:
Zip Code: 94550
Phone:

Affil Type Desc: Environmental Contact
Entity Name: Dana Williams
Entity Title:
Address: 1813 4th st
City: Livermore
State: CA
Country:
Zip Code: 94550
Phone:

Affil Type Desc: Operator
Entity Name: Daljit Hundal
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (925) 455-4743

Affil Type Desc: Document Preparer
Entity Name: Dana Williams
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: carls jr
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Name: Dana Williams
Entity Title: Operations
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: Daljit Hundal
Entity Title:
Address: 1813 4th st
City: Livermore
State: CA
Country: United States
Zip Code: 94550
Phone: (925) 455-4743

Coordinates

Env Int Type Code: HMBP
Program ID: 10739401
Latitude: 37.991100
Longitude: -122.301360
Coord Name:
Ref Point Type Desc: Center of a facility or station.

12	1 of 1	ENE	0.07 / 374.88	179.04 / -17	BURGER KING 3217 1571 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0042896
CUPA ID: 776376
CERS ID:

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7200
Program Element: HMBP GENERAL

13	1 of 3	W	0.07 / 387.61	257.33 / 61	BEST BUY #0138 1490 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0039142
CUPA ID: 775413
CERS ID: 10731688

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

13	2 of 3	W	0.07 / 387.61	257.33 / 61	Best Buy #0138 1490 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 420760
Latitude: 37.990847
Longitude: -122.306815
County:

Regulated Programs

EI ID: 10731688 **EI Description:** Hazardous Waste Generator

Evaluations

Eval Date: 01/03/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 12/22/2017
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Parent Corporation
Entity Name: Best Buy Co., Inc.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: Che Chen Liu and Shu Fen Liu
Entity Title:
Address: 4076 Oak Manor Ct
City: Hayward
State: CA
Country: United States
Zip Code:
Phone: (510) 487-9129

Affil Type Desc: Environmental Contact
Entity Name: Tim Dunn
Entity Title:
Address: 7601 Penn Avenue South B5
City: Richfield
State: MN
Country:
Zip Code: 55423
Phone:

Affil Type Desc: Document Preparer
Entity Name: Mily Melendez
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc:	Operator
Entity Name:	Best Buy #0138
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(510) 758-0112

Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	7601 Penn Avenue South B5
City:	Richfield
State:	MN
Country:	
Zip Code:	55423
Phone:	

Affil Type Desc:	Legal Owner
Entity Name:	Best Buy Co, Inc.
Entity Title:	
Address:	7601 Penn Avenue South
City:	Richfield
State:	MN
Country:	United States
Zip Code:	55423-3645
Phone:	(612) 291-3406

Affil Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	
Address:	4585 Pacheco BlvdSuite 100
City:	Martinez
State:	CA
Country:	
Zip Code:	94553
Phone:	(925) 655-3200

Affil Type Desc:	Identification Signer
Entity Name:	Tim Dunn
Entity Title:	Compliance Director
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Coordinates

Env Int Type Code:	HWG	***Longitude:***	-122.306820
Program ID:	10731688	***Coord Name:***	
Latitude:	37.990850	***Ref Point Type Desc:***	Center of a facility or station.

13	*3 of 3*	*W*	*0.07 / 387.61*	*257.33 / 61*	***BEST BUY STORE #138 1490 FITZGERALD RD PINOLE CA 94564***	***RCRA NON GEN***

EPA Handler ID:	CAL000425942
Gen Status Universe:	No Report
Contact Name:	TIM DUNN
Contact Address:	7601 PENN AVENUE SOUTH , , RICHFIELD , MN, 55423 ,
Contact Phone No and Ext:	612-291-3406
Contact Email:	TIMOTHY.DUNN@BESTBUY.COM

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20170321
Location Latitude:	37.990827
Location Longitude:	-122.306772

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20170321
Handler Name:	BEST BUY STORE #138
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	7601 PENN AVENUE SOUTH
Name:	TIM DUNN	**Street 2:**	
Date Became Current:		**City:**	RICHFIELD
Date Ended Current:		**State:**	MN
Phone:	612-291-3406	**Country:**	
Source Type:	Implementer	**Zip Code:**	55423

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	7601 PENN AVE S
Name:	BEST BUY CO INC	**Street 2:**	
Date Became Current:		**City:**	RICHFIELD
Date Ended Current:		**State:**	MN
Phone:	612-291-6251	**Country:**	
Source Type:	Implementer	**Zip Code:**	55423

14	1 of 4	W	0.08 / 411.26	254.07 / 58	AUTOZONE #3312 1475 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0030060

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CUPA ID: 773390
CERS ID: 10017895

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7202
Program Element: HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7103
Program Element: HWG: 12 - <25 TONS/YEAR

14	2 of 4	W	0.08 / 411.26	254.07 / 58	AUTOZONE #3312 1475 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 386891
Latitude: 37.990969
Longitude: -122.308010
County:

Regulated Programs

EI ID: 10017895 **EI Description:** Hazardous Waste Generator

EI ID: 10017895 **EI Description:** Chemical Storage Facilities

Violations

Violation Date: 06/07/2021 **Violation Source:** CERS
Violation Program: HMRRP **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Notes:

Returned to compliance on 06/11/2021. OBSERVATION: The business needs to add storm drains to map. CORRECTIVE ACTION: Electronically submit a site map with all required content (only storm drains were missing). ~

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 06/28/2017 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Contra Costa County Health Services Department
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Notes:

Returned to compliance on 06/28/2017.

Violation Description:

Hazardous Waste Generator Program - Operations/Maintenance - General

Enforcements

Enf Action Date: 06/28/2017 **Enf Action Program:** HW
Enf Action Type: Notice of Violation (Unified Program) **Enf Action Source:** CERS

Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 06/07/2021 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 11/14/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/11/2021
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 11/14/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/28/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/07/2021
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/07/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department

Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/28/2017
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/28/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Legal Owner
Entity Name: AutoZone Stores Inc
Entity Title:
Address: 123 South Front Street
City: MEMPHIS
State: TN
Country: United States
Zip Code: 38103-3607
Phone: (901) 495-6500

Affil Type Desc: Property Owner
Entity Name: Pinole Ridge Mall LLC
Entity Title:
Address: PO Box 611166
City: San Jose
State: CA
Country: United States
Zip Code: 95161
Phone: (669) 238-8698

Affil Type Desc: Environmental Contact
Entity Name: Andrew Beaven
Entity Title:
Address: Dept 8190, 123 South Front Street
City: MEMPHIS
State: TN
Country:
Zip Code: 38103-3607
Phone:

Affil Type Desc: Operator

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Name:	Autozone
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(916) 631-0383

Affil Type Desc:	Identification Signer
Entity Name:	Deborah Williams
Entity Title:	Environmental Coordinator
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Parent Corporation
Entity Name:	AUTOZONE #3312
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Document Preparer
Entity Name:	Deborah Williams
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	Dept 8190, 123 South Front Street
City:	Memphis
State:	TN
Country:	
Zip Code:	38103
Phone:	

Coordinates

Env Int Type Code:	HMBP	**Longitude:**	-122.306888
Program ID:	10017895	**Coord Name:**	
Latitude:	37.990928	**Ref Point Type Desc:**	Unknown

14	3 of 4	W	0.08 / 411.26	254.07 / 58	AUTOZONE #3312 1475 FITZGERALD DR STE 100 PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAL000275414
Gen Status Universe:	No Report
Contact Name:	BRYAN BLAIR
Contact Address:	DEPT 8190, 123 SOUTH FRONT STREET , , MEMPHIS , TN, 38103 ,
Contact Phone No and Ext:	901-495-7217
Contact Email:	BRYAN.BLAIR@AUTOZONE.COM
Contact Country:	
County Name:	CONTRA COSTA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

EPA Region:	09
Land Type:	
Receive Date:	20031015
Location Latitude:	37.990953
Location Longitude:	-122.306909

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20031015
Handler Name:	AUTOZONE #3312
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	123 S FRONT ST
Name:	AUTO ZONE CORPORTATION	***Street 2:***	
Date Became Current:		***City:***	MEMPHIS
Date Ended Current:		***State:***	TN
Phone:	901-495-6500	***Country:***	
Source Type:	Implementer	***Zip Code:***	38103-3607

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	DEPT 8190, 123 SOUTH FRONT STREET
Name:	BRYAN BLAIR	***Street 2:***	
Date Became Current:		***City:***	MEMPHIS
Date Ended Current:		***State:***	TN
Phone:	901-495-7217	***Country:***	
Source Type:	Implementer	***Zip Code:***	38103

14	***4 of 4***	***W***	***0.08 / 411.26***	***254.07 / 58***	***AUTOZONE #3312 1475 FITZGERALD DR PINOLE CA 94564***	***C&D DEBRIS RECY***

County:	CONTRA COSTA
Activity Type:	USED OIL COLLECTION

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phone No:						
15	1 of 2	W	0.09 / 475.57	248.31 / 52	PANDA EXPRESS #808 1473 FITZGERALD DR 101 PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0041715
CUPA ID: 776178
CERS ID: 10769560

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7201
Program Element: HMBP: LESS THAN 1000 LBS

15	2 of 2	W	0.09 / 475.57	248.31 / 52	Panda Express #808 1473 FITZGERALD DR STE 101 PINOLE CA 94564	CERS HAZ

Site ID: 442041
Latitude: 37.991590
Longitude: -122.306260
County:

Regulated Programs

EI ID: 10769560 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 08/08/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Environmental Contact
Entity Name: Melissa Martinez
Entity Title:
Address: 1683 Walnut Grove Ave.
City: Rosemead
State: CA
Country:
Zip Code: 91770
Phone:

Affil Type Desc: Identification Signer
Entity Name: Lauren Rios
Entity Title: Utilities Coordinator
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc:	Document Preparer
Entity Name:	Lauren Rios
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	Panda Restaurant Group, Attn: Utilities Dept., 1683 Walnut Grove Ave.
City:	Rosemead
State:	CA
Country:	
Zip Code:	91770
Phone:	

Affil Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	
Address:	4585 Pacheco BlvdSuite 100
City:	Martinez
State:	CA
Country:	
Zip Code:	94553
Phone:	(925) 655-3200

Affil Type Desc:	Parent Corporation
Entity Name:	Panda Restaurant Group
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Operator
Entity Name:	Elizabeth Salacup
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(707) 342-9727

Affil Type Desc:	Property Owner
Entity Name:	Sycal Properties, Inc.
Entity Title:	
Address:	150 Pelican Way
City:	San Rafael
State:	CA
Country:	United States
Zip Code:	94901
Phone:	(415) 448-8586

Affil Type Desc:	Legal Owner
Entity Name:	Panda Restaurant Group, Inc.
Entity Title:	
Address:	1683 Walnut Grove Ave.
City:	Rosemead
State:	CA
Country:	United States
Zip Code:	91770
Phone:	(626) 799-9898

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
16	1 of 1	SSE	0.10 / 510.84	299.00 / 103	ATHULA WILLATHGAMUWA 964 VALERIE COURT EL SOBRANTE CA 94803	RCRA NON GEN

EPA Handler ID:	CAC003002322
Gen Status Universe:	No Report
Contact Name:	ATHULA WILLATHGAMUWA
Contact Address:	964 VALERIE COURT , , EL SOBRANTE , CA, 94803 ,
Contact Phone No and Ext:	510-290-6636
Contact Email:	ALEJANDRAMALDONADO@ALLIANCE-ENVIRO.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20190222
Location Latitude:	37.988131
Location Longitude:	-122.303742

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20190222
Handler Name:	ATHULA WILLATHGAMUWA
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	964 VALERIE COURT
Name:	ATHULA WILLATHGAMUWA	**Street 2:**	
Date Became Current:		**City:**	EL SOBRANTE
Date Ended Current:		**State:**	CA
Phone:	510-290-6636	**Country:**	
Source Type:	Implementer	**Zip Code:**	94803
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	964 VALERIE COURT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Name:	ATHULA WILLATHGAMUWA	**Street 2:**	
Date Became Current:		**City:**	EL SOBRANTE
Date Ended Current:		**State:**	CA
Phone:	510-290-6636	**Country:**	
Source Type:	Implementer	**Zip Code:**	94803

17	1 of 4	ENE	0.11 / 555.86	189.85 / -7	1572 FITZGERALD DR PINOLE CA 94564	CDL

Clue: 2011-06-009
Date: 6/27/2011
County: CONTRA COSTA
Lab Type: A
Lab Type Description: Abandoned Drug Lab Waste - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

17	2 of 4	ENE	0.11 / 555.86	189.85 / -7	BIG 5 SPORTING GOODS #062 1572 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0037176
CUPA ID: 775134
CERS ID: 10645870

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7110
Program Element: HWG: REPORTED ZERO

17	3 of 4	ENE	0.11 / 555.86	189.85 / -7	BIG 5 SPORTING GOODS #062 1572 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 359349
Latitude: 37.991328
Longitude: -122.301253
County:

Regulated Programs

EI ID: 10645870 **EI Description:** Hazardous Waste Generator

Evaluations

Eval Date: 09/20/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 01/16/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW

Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Identification Signer
Entity Name: Ashley Campbell
Entity Title: ENVIRONMENTAL COMPLIANCE SPECIALIST
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: ROGER TANAKA
Entity Title:
Address: 2525 E. EL SEGUNDO BLVD
City: EL SEGUNDO
State: CA
Country:
Zip Code: 90245
Phone:

Affil Type Desc: Operator
Entity Name: BIG 5 SPORTING GOODS #062
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (510) 222-6680

Affil Type Desc: Document Preparer
Entity Name: ASHLEY CAMPBELL
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 2525 E. EL SEGUNDO BLVD
City: EL SEGUNDO
State: CA
Country:
Zip Code: 90245
Phone:

Affil Type Desc: Parent Corporation
Entity Name: BIG 5 SPORTING GOODS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: BIG 5 SPORTING GOODS CORPORATION
Entity Title:
Address: 2525 E. EL SEGUNDO BLVD
City: EL SEGUNDO
State: CA
Country: United States
Zip Code: 90245
Phone: (310) 350-2413

Coordinates

Env Int Type Code: HWG
Program ID: 10645870
Latitude: 37.991330
Longitude: -122.301250
Coord Name:
Ref Point Type Desc: Center of a facility or station.

17	4 of 4	ENE	0.11 / 555.86	189.85 / -7	BIG 5 SPORTING GOODS #062 1572 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID: CAL000410134
Gen Status Universe: No Report
Contact Name: ROGER TANAKA EXT 5523
Contact Address: 2525 E EL SEGUNDO BLVD , , EL SEGUNDO , CA, 90245 ,
Contact Phone No and Ext: 310-536-0611
Contact Email: ASHLEY.CAMPBELL@STERICYCLE.COM
Contact Country:
County Name: CONTRA COSTA
EPA Region: 09
Land Type:
Receive Date: 20150914
Location Latitude: 37.991304
Location Longitude: -122.301307

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20150914
Handler Name: BIG 5 SPORTING GOODS #062
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: BIG 5 CORP
Date Became Current:
Date Ended Current:
Phone: 310-536-0611
Source Type: Implementer
Street No:
Street 1: 2525 E EL SEGUNDO BLVD
Street 2:
City: EL SEGUNDO
State: CA
Country:
Zip Code: 90245

Owner/Operator Ind: Current Operator
Type: Other
Name: ROGER TANAKA EXT 5523
Date Became Current:
Date Ended Current:
Phone: 310-536-0611
Source Type: Implementer
Street No:
Street 1: 2525 E EL SEGUNDO BLVD
Street 2:
City: EL SEGUNDO
State: CA
Country:
Zip Code: 90245

18	1 of 3	ENE	0.11 / 562.71	189.85 / -7	KIYOHARA CLEANERS 1576 FITZGERALD WY PINOLE CA 94564	EMISSIONS

1987 Criteria Data

Facility ID: 1624
Facility SIC Code: 7216
CO: 7
Air Basin: SF
District: BA
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:
TOGT: 2.2
ROGT: 0
COT:
NOXT:
SOXT:
PMT:
PM10T:

1987 Toxic Data

Facility ID: 1624
Facility SIC Code: 7216
CO: 7
Air Basin: SF
District: BA
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:

1990 Criteria Data

Facility ID: 1624
Facility SIC Code: 7216
CO: 7
Air Basin: SF
District: BA
CERR Code:
TOGT: .7
ROGT: 0
COT:
NOXT:

COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

1990 Toxic Data

Facility ID:	1624	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1993 Criteria Data

Facility ID:	1624	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.7
CO:	7	**ROGT:**	0
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

1993 Toxic Data

Facility ID:	1624	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1995 Criteria Data

Facility ID:	1624	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.5
CO:	7	**ROGT:**	0
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

1995 Toxic Data

Facility ID:	1624	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

1996 Criteria Data

Facility ID:	1624	***CERR Code:***	
Facility SIC Code:	7216	***TOGT:***	.7
CO:	7	***ROGT:***	0
Air Basin:	SF	***COT:***	
District:	BA	***NOXT:***	
COID:	CC	***SOXT:***	
DISN:	BAY AREA AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1996 Toxic Data

Facility ID:	1624	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1997 Criteria Data

Facility ID:	1624	***CERR Code:***	
Facility SIC Code:	7216	***TOGT:***	.4
CO:	7	***ROGT:***	0
Air Basin:	SF	***COT:***	
District:	BA	***NOXT:***	
COID:	CC	***SOXT:***	
DISN:	BAY AREA AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1997 Toxic Data

Facility ID:	1624	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1998 Toxic Data

Facility ID:	1624	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

18	*2 of 3*	*ENE*	*0.11 / 562.71*	*189.85 / -7*	***SUN'S CLEANERS*** ***1576 FITZGERALD WY*** ***PINOLE CA 94564***	***EMISSIONS***

1998 Criteria Data

Facility ID:	11926	***CERR Code:***	
Facility SIC Code:	7216	***TOGT:***	.2
CO:	7	***ROGT:***	0
Air Basin:	SF	***COT:***	
District:	BA	***NOXT:***	
COID:	CC	***SOXT:***	
DISN:	BAY AREA AQMD	***PMT:***	
CHAPIS:		***PM10T:***	

1998 Toxic Data

Facility ID:	11926	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1999 Toxic Data

Facility ID:	11926	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2000 Toxic Data

Facility ID:	11926	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2001 Toxic Data

Facility ID:	11926	***COID:***	CC
Facility SIC Code:	7216	***DISN:***	BAY AREA AQMD
CO:	7	***CHAPIS:***	
Air Basin:	SF	***CERR Code:***	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2002 Toxic Data

Facility ID:	11926	***COID:***	CC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2003 Criteria Data

Facility ID:	11926	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.095
CO:	7	**ROGT:**	.07
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

2003 Toxic Data

Facility ID:	11926	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2004 Criteria Data

Facility ID:	11926	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.095
CO:	7	**ROGT:**	.066367
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

2004 Toxic Data

Facility ID:	11926	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
18	3 of 3	ENE	0.11 / 562.71	189.85 / -7	SUN'S CLEANERS 1576 FITZGERALD WY PINOLE CA 94564	FED DRYCLEANERS

FRS Facility ID:	110021340244
NPDES IDs:	
NAICS Codes:	812320
SIC Codes:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Latitude:		37.99137				
Longitude:		-122.30121				

19	1 of 2	ENE	0.12 / 619.24	201.29 / 5	WENDYS/WINGSTOP 1581 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0041631
CUPA ID: 776154
CERS ID: 10768042

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7203
Program Element: HMBP: 1K-10K LBS, 20+ EMPLOYEES

19	2 of 2	ENE	0.12 / 619.24	201.29 / 5	Wendys/Wingstop 1581 FITZGERALD DR PINOLE CA 94564	CERS HAZ

Site ID: 445430
Latitude: 37.991660
Longitude: -122.301080
County:

Regulated Programs

EI ID: 10768042 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 08/08/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1581 Fitzgerald Dr
City: Pinole
State: CA
Country:
Zip Code: 94564
Phone:

Affil Type Desc: Legal Owner
Entity Name: bikram randhawa
Entity Title:
Address: 1581 Fitzgerald Dr
City: Pinole
State: CA
Country: United States
Zip Code: 94564

Phone: (510) 367-3259

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Operator
Entity Name: bikram randhawa
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (510) 367-3259

Affil Type Desc: Document Preparer
Entity Name: bikram randhawa
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: wendys of pinole
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: bikram randhawa
Entity Title: CEO
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: bikram randhawa
Entity Title:
Address: 1581 Fitzgerald Dr
City: Pinole
State: CA
Country:
Zip Code: 94564
Phone:

Coordinates

Env Int Type Code: HMBP
Program ID: 10768042
Latitude: 37.991660
Longitude: -122.301080
Coord Name:
Ref Point Type Desc: Center of a facility or station.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	1 of 6	ENE	0.12 / 626.98	201.29 / 5	KIYOHARA CLEANERS 1576 FITZGERALD DR PINOLE CA 94564	RCRA SQG

EPA Handler ID: CAD981965718
Gen Status Universe: Small Quantity Generator
Contact Name:
Contact Address: US
Contact Phone No and Ext:
Contact Email:
Contact Country: US
County Name: CONTRA COSTA
EPA Region: 09
Land Type:
Receive Date: 19960901
Location Latitude: 37.990503
Location Longitude: -122.300172

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Nov, 2021.

Violation Details

Found Violation: Yes
Citation: FR - 262.10-12.A
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19940401
Scheduled Compliance Date:
Return to Compliance: Not Resolvable
Actual Return to Compl: 19990401
Violation Responsible Agency: State

Violation Details

Found Violation: Yes
Citation: FR - 262.10-12.A
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19910219
Scheduled Compliance Date:
Return to Compliance: Unverifiable
Actual Return to Compl: 19940401
Violation Responsible Agency: State

Violation Details

Found Violation: Yes
Citation: FR - 262.10-12.A
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19910118
Scheduled Compliance Date:
Return to Compliance: Unverifiable
Actual Return to Compl: 19910219
Violation Responsible Agency: State

Evaluation Details

Evaluation Start Date: 19940401

Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19990401
Evaluation Agency: State Contractor/Grantee

Evaluation Start Date: 19910219
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19940401
Evaluation Agency: State Contractor/Grantee

Evaluation Start Date: 19910118
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19910219
Evaluation Agency: State Contractor/Grantee

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19870203
Handler Name: KIYOHARA CLEANERS
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19960901
Handler Name: KIYOHARA CLEANERS
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: NOT REQUIRED
Date Became Current:
Date Ended Current:
Phone: 415-555-1212
Source Type: Implementer

Street No:
Street 1: NOT REQUIRED
Street 2:
City: NOT REQUIRED
State: ME
Country:
Zip Code: 99999

Owner/Operator Ind: Current Owner

Street No:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Type:	Private	**Street 1:**	NOT REQUIRED
Name:	KIYOHARA TOMIKO	**Street 2:**	
Date Became Current:		**City:**	NOT REQUIRED
Date Ended Current:		**State:**	ME
Phone:	415-555-1212	**Country:**	
Source Type:	Notification	**Zip Code:**	99999

Historical Handler Details

Receive Dt:	19870203
Generator Code Description:	Large Quantity Generator
Handler Name:	KIYOHARA CLEANERS

20	2 of 6	ENE	0.12 / 626.98	201.29 / 5	SUN'S CLEANERS 1576 FITZGERALD DR G-1 PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0032986
CUPA ID:	770461
CERS ID:	10009483

Detail(s)

Billing Status:	INACTIVE, NON-BILLABLE
Program Element Code:	7101
Program Element:	HWG: LESS THAN 5 TONS/YEAR
Billing Status:	INACTIVE, NON-BILLABLE
Program Element Code:	7202
Program Element:	HMBP: 1K-10K LBS, 0-19 EMPLOYEES

20	3 of 6	ENE	0.12 / 626.98	201.29 / 5	KIYOHARA CLEANERS 1576 FITZGERALD DR PINOLE CA	DRYCLEANERS

EPA ID:	CAD981965718	**Owner City:**	PINOLE
Create Date:	7/3/1987	**Owner State:**	CA
Facility Act Ind:	No	**Owner Zip:**	--
Inact Date:	6/30/1998	**Owner Phone:**	5102234277
Reason:	CLEANERS	**Owner Fax:**	
Region Code:	2	**Contact Name:**	TOMIKO KIYOHARA
DD Latitude:	37.991767	**Contact Street 1:**	INACTIVE PER VQ98 - BMI
DD Longitude:	-122.301716	**Contact Street 2:**	
Facility County Code:	(07) CONTRA COSTA	**Contact City:**	PINOLE
Mail Name:		**Contact State:**	CA
Owner Name:	TOMIKO KIYOHARA	**Contact Zip:**	--
Owner Street 1:	1576 FITZGERALD DR	**Contact Phone:**	5102234277
Owner Street 2:		**Contact Fax:**	

20	4 of 6	ENE	0.12 / 626.98	201.29 / 5	SUN'S CLEANERS 1576 FITZGERALD DR PINOLE CA	DRYCLEANERS

EPA ID:	CAL000194402	**Owner City:**	PINOLE
Create Date:	6/4/1998	**Owner State:**	CA
Facility Act Ind:	No	**Owner Zip:**	945640000
Inact Date:	6/30/2008	**Owner Phone:**	5102234277
Reason:	CLEANERS	**Owner Fax:**	
Region Code:	2	**Contact Name:**	SANGSOON SON
DD Latitude:	37.991219	**Contact Street 1:**	1576 FITZGERALD DR E-1
DD Longitude:	-122.301068	**Contact Street 2:**	
Facility County Code:	(07) CONTRA COSTA	**Contact City:**	PINOLE
Mail Name:		**Contact State:**	CA
Owner Name:	CHOON KEUN SON	**Contact Zip:**	945640000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner Street 1:	1576 FITZGERALD DR E-1	**Contact Phone:**	5102234277
Owner Street 2:		**Contact Fax:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	5 of 6	ENE	0.12 / 626.98	201.29 / 5	DUTCH MAID CLEANERS 1576 FITZGERALD DR PINOLE CA	DRYCLEANERS

EPA ID:	CAX000205674	**Owner City:**	--
Create Date:	3/15/1985	**Owner State:**	99
Facility Act Ind:	No	**Owner Zip:**	--
Inact Date:	6/30/1998	**Owner Phone:**	0
Reason:	CLEANERS	**Owner Fax:**	
Region Code:	2	**Contact Name:**	STEVE DEPPER
DD Latitude:	37.991322	**Contact Street 1:**	INACT PER 98VQ FINAL NOTICE
DD Longitude:	-122.30097	**Contact Street 2:**	- BATCH 4/27
Facility County Code:	(07) CONTRA COSTA	**Contact City:**	--
Mail Name:		**Contact State:**	99
Owner Name:	--	**Contact Zip:**	--
Owner Street 1:	--	**Contact Phone:**	4156588660
Owner Street 2:		**Contact Fax:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	6 of 6	ENE	0.12 / 626.98	201.29 / 5	KIYOHARA CLEANERS 1576 FITZGERALD DR PINOLE CA 94564	FED DRYCLEANERS

FRS Facility ID:	110001157015
NPDES IDs:	
NAICS Codes:	81232
SIC Codes:	
Latitude:	37.99137
Longitude:	-122.30121

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
21	1 of 1	ENE	0.12 / 659.76	209.49 / 13	2426 APPIAN WAY (PUBLIC STORAGE) PINOLE CA 94564	CDL

Clue:	1995-12-042
Date:	12/26/1995
County:	CONTRA COSTA
Lab Type:	L
Lab Type Description:	Illegal Drug Lab - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
22	1 of 1	W	0.13 / 682.65	228.05 / 32	T-MOBILE WEST, LLC BA11197A 1441 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0030670
CUPA ID:	774001
CERS ID:	10801333

Detail(s)

Billing Status:	INACTIVE, NON-BILLABLE
Program Element Code:	7202
Program Element:	HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7201
Program Element:	HMBP: LESS THAN 1000 LBS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
23	1 of 2	ENE	0.13 / 686.97	209.97 / 13	DOLLAR TREE #03178 1598 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0034861
CUPA ID: 774762
CERS ID: 10467589

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7201
Program Element: HMBP: LESS THAN 1000 LBS

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

23	2 of 2	ENE	0.13 / 686.97	209.97 / 13	DOLLAR TREE #03178 1598 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID: CAL000390884
Gen Status Universe: No Report
Contact Name: ANGELA JONES
Contact Address: 500 VOLVO PKWY , , CHESAPEAKE , VA, 23320-1604 ,
Contact Phone No and Ext: 757-321-5761
Contact Email: AJONES@DOLLARTREE.COM
Contact Country:
County Name: CONTRA COSTA
EPA Region: 09
Land Type:
Receive Date: 20131106
Location Latitude: 37.991133
Location Longitude: -122.300492

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20131106

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Handler Name: DOLLAR TREE #03178
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	500 VOLVO PKWY
Name:	ANGELA JONES	**Street 2:**	
Date Became Current:		**City:**	CHESAPEAKE
Date Ended Current:		**State:**	VA
Phone:	757-321-5761	**Country:**	
Source Type:	Implementer	**Zip Code:**	23320-1604

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	500 VOLVO PKWY
Name:	DOLLAR TREE STORES, INC.	**Street 2:**	
Date Became Current:		**City:**	CHESAPEAKE
Date Ended Current:		**State:**	VA
Phone:	757-321-5000	**Country:**	
Source Type:	Implementer	**Zip Code:**	23320-1604

24	1 of 1	ENE	0.14 / 714.71	219.19 / 23	SUN'S CLEANERS 1576 FITZGERALD WAY PINOLE CA 94564	EMISSIONS

2005 Criteria Data

Facility ID:	11926	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.068
CO:	7	**ROGT:**	.0475048
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

2005 Toxic Data

Facility ID:	11926	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2006 Criteria Data

Facility ID:	11926	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.068
CO:	7	**ROGT:**	0
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2006 Toxic Data

Facility ID:	11926	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2007 Criteria Data

Facility ID:	11926	**CERR Code:**	
Facility SIC Code:	7216	**TOGT:**	.068
CO:	7	**ROGT:**	.0475048
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

2007 Toxic Data

Facility ID:	11926	**COID:**	CC
Facility SIC Code:	7216	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

25	1 of 2	W	0.16 / 863.25	218.91 / 22	PINOLE GROCERY OUTLET 1460 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0040664
CUPA ID:	775927
CERS ID:	10757494

Detail(s)

Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7110
Program Element:	HWG: REPORTED ZERO

25	2 of 2	W	0.16 / 863.25	218.91 / 22	PROVIDENT GROCERIES INC DBA PINOLE GROCERY OUTLET 1460 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAL000417097
Gen Status Universe:	No Report
Contact Name:	SAM AHMAD
Contact Address:	1460 FITZGERALD DR , , PINOLE , CA, 94564 ,
Contact Phone No and Ext:	510-223-3404
Contact Email:	PINOLE@GROCERYOUTLET.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Land Type:
Receive Date: 20160513
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20160513
Handler Name:	PROVIDENT GROCERIES INC DBA PINOLE GROCERY OUTLET
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1460 FITZGERALD DR
Name:	SAM AHMAD	**Street 2:**	
Date Became Current:		**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	510-223-3404	**Country:**	
Source Type:	Implementer	**Zip Code:**	94564

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	172 MARITIME TER
Name:	PROVIDENT GROCERIES INC	**Street 2:**	
Date Became Current:		**City:**	HERCULES
Date Ended Current:		**State:**	CA
Phone:	510-223-3404	**Country:**	
Source Type:	Implementer	**Zip Code:**	94547-2656

26	1 of 1	S	0.16 / 868.46	276.10 / 80	ANTONI'S PAINTING & DECORATING 1094 KELVIN RD EL SOBRANTE CA 94803	CUPA CONTRACO

Facility ID: FA0028162
CUPA ID: 771398
CERS ID: 10012201

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Detail(s)

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7100
Program Element: HWG GENERAL

27	1 of 1	W	0.16 / 868.72	218.25 / 22	CHUCK E CHEESES 1470 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0043576
CUPA ID: 776637
CERS ID:

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7200
Program Element: HMBP GENERAL

28	1 of 1	S	0.17 / 881.28	276.32 / 80	BAKER TRUCKING 1101 KELVIN RD EL SOBRANTE CA 94803	CUPA CONTRACO

Facility ID: FA0029002
CUPA ID: 772297
CERS ID: 10014721

Detail(s)

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7200
Program Element: HMBP GENERAL

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

29	1 of 9	ENE	0.17 / 894.24	197.76 / 1	VALERO #7-142 2401 APPIAN WAY PINOLE CA 94564	DELISTED TNK

Delisted Storage Tanks

Facility ID: 770750
Latitude: 37.9935069
Longitude: -122.298939
Permitting Agency: CONTRA COSTA COUNTY
County: Contra Costa
Original Source: UST
Record Date: 30-JAN-2017

29	2 of 9	ENE	0.17 / 894.24	197.76 / 1	7-ELEVEN INC. STORE# 37994 2401 APPIAN WY PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0033263
CUPA ID: 770750
CERS ID: 10010317

Detail(s)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7302
Program Element: UNDERGROUND STORAGE TANK SITE

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7208
Program Element: HMBP: >250K-500K LBS, 0-19 EMPLOYEES

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7208
Program Element: HMBP: >250K-500K LBS, 0-19 EMPLOYEES

29	3 of 9	ENE	0.17 / 894.24	197.76 / 1	EXXON 2401 APPIAN WY PINOLE CA 94564	LUST

Global ID: T0601300727
Status: COMPLETED - CASE CLOSED
Status Date: 12/13/2001
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: CONTRA COSTA
Latitude: 37.992257
Longitude: -122.30028

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 07-0781
Local Case No: 70750
Begin Date: 11/19/1998
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency: CONTRA COSTA COUNTY
CUF Case: NO
Potential Media of Concern: Other Groundwater (uses other than drinking water)
How Discovered Description:
Calwater Watershed Name: San Pablo - Pinole (206.60)
DWR GW Subbasin Name:
Disadvantaged Community:
Calenviroscreen Score: 46-50%
Site History:
Potential COC: Gasoline
How Discovered: Tank Closure
Stop Method:
Stop Description:
Case Worker:
File Location:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 12/13/2001
Action: Closure/No Further Action Letter

Action Type: RESPONSE
Date : 4/5/2001
Action: Well Destruction Report

Action Type: ENFORCEMENT
Date : 3/1/2001
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 2/22/2001
Action: * Historical Enforcement

Action Type: RESPONSE
Date : 2/21/2001
Action: Email Correspondence

Action Type: RESPONSE
Date : 10/31/2000
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/12/2000
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 3/17/2000
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 3/8/2000
Action: Correspondence

Action Type: RESPONSE
Date : 1/4/2000
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 8/27/1999
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/8/1999
Action: Monitoring Report - Quarterly

Action Type: Other
Date : 6/3/1999
Action: Leak Stopped

Action Type: Other
Date : 6/3/1999
Action: Leak Discovery

Action Type: Other
Date : 6/3/1999
Action: Leak Reported

Action Type: RESPONSE
Date : 4/27/1999
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 12/22/1998
Action: Soil and Water Investigation Report

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
City: MARTINEZ
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
Email: sloyd@hsd.co.contra-costa.ca.us
Phone No:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 12/13/2001

Status: Open - Site Assessment
Status Date: 4/5/2001

Status: Open - Case Begin Date
Status Date: 11/19/1998

Status: Open - Site Assessment
Status Date: 11/19/1998

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: EXXON
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
File Location:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 2401 APPIAN WY
City: PINOLE
Zip: 94564
County: CONTRA COSTA
CUF Claim:

Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0601300727
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 12/13/2001
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0601300727&tabname=regulatoryhistory
Potential Media of Concern: OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)
User Defined Beneficial Use:
DWR GW Sub Basin:
Calwater Watershed Name: San Pablo - Pinole (206.60)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: SAN FRANCISCO BAY RWQCB (REGION 2) (LEAD) - CASE #: 07-0781
CONTRA COSTA COUNTY - CASE #: 70750
CASEWORKER: SUE LOYD
Gndwater Monitoring Freque:
Designated Beneficial Use Desc: Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 12/13/2001

Status: Open - Site Assessment
Date : 4/5/2001

Status: Open - Site Assessment
Date : 11/19/1998

Status: Open - Case Begin Date
Date : 11/19/1998

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 12/13/2001
Received Issue Date: 12/13/2001
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=6343328&temptable=ENFORCEMENT
Title Description Comments:

Case Closure - Underground Storage Tank

Action Type: Other Regulatory Actions
Action Date: 12/13/2001
Received Issue Date: 12/13/2001
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=6277315&temptable=ENFORCEMENT
Title Description Comments:

3-18-2010 169468 40715 CASE CLOSURE 070781

Action Type: Response Requested - Reports
Action Date: 4/5/2001
Received Issue Date: 4/5/2001
Action: Well Destruction Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950342
Title Description Comments:

Destruction of Groundwater Monitoring Wells and Site Closure Summary

Action Type: Other Regulatory Actions
Action Date: 3/1/2001
Received Issue Date: 3/1/2001
Action: Technical Correspondence / Assistance / Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=6343327&temptable=ENFORCEMENT
Title Description Comments:

Well Drillers Reports Inspection Request and Agreement

Action Type: Enforcement/Orders
Action Date: 2/22/2001
Received Issue Date: 2/22/2001
Action: * Historical Enforcement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=5971323&temptable=ENFORCEMENT
Title Description Comments:

Request for Additional Information

Action Type: Response Requested - Other
Action Date: 2/21/2001
Received Issue Date: 2/21/2001
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950336
Title Description Comments:

Request for Deadline Extension

Action Type: Response Requested - Reports
Action Date: 10/31/2000
Received Issue Date: 10/31/2000
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950343
Title Description Comments:

Quarterly Groundwater Monitoring Report, Third Quarter 2000

Action Type: Response Requested - Reports
Action Date: 7/12/2000
Received Issue Date: 7/12/2000
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950344
Title Description Comments:

Quarterly Groundwater Monitoring Report, Second Quarter 2000

Action Type: Response Requested - Reports
Action Date: 3/17/2000
Received Issue Date: 3/17/2000
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950346
Title Description Comments:

Quarterly Groundwater Monitoring Report, First Quarter 2000

Action Type: Response Requested - Other
Action Date: 3/8/2000
Received Issue Date: 3/8/2000
Action: Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950337
Title Description Comments:

Notification of On-Site Drilling Activities

Action Type: Response Requested - Reports
Action Date: 1/4/2000
Received Issue Date: 1/4/2000
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950347
Title Description Comments:

Quarterly Groundwater Monitoring Report, Fourth Quarter 1999

Action Type: Response Requested - Reports
Action Date: 8/27/1999
Received Issue Date: 8/27/1999
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950353
Title Description Comments:

Quarterly Groundwater Monitoring Report, Third Quarter 1999

Action Type: Response Requested - Reports
Action Date: 7/8/1999
Received Issue Date: 7/8/1999
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950355
Title Description Comments:

Quarterly Groundwater Monitoring Report, Second Quarter 1999

Action Type: Response Requested - Reports
Action Date: 4/27/1999
Received Issue Date: 4/27/1999
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950356
Title Description Comments:

Quarterly Groundwater Monitoring Report, First Quarter 1999

Action Type: Response Requested - Reports
Action Date: 12/22/1998
Received Issue Date: 12/22/1998
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300727&doc_id=5950357
Title Description Comments:

Baseline Environmental Investigation

Action Type: Leak Action
Action Date: 6/3/1999
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 6/3/1999
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 6/3/1999
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents **Size :**
Document Date: 12/13/2001 **Submitted By:** JOHN SEAL (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER **Submitted:**
Title: CASE CLOSURE - UNDERGROUND STORAGE TANK
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=6343328

Document Type: Site Documents **Size :**
Document Date: 12/13/2001 **Submitted By:** MICHELE HARDEN (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER **Submitted:**
Title: 3-18-2010 169468 40715 CASE CLOSURE 070781
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=6277315

Document Type: Site Documents **Size :**
Document Date: 4/5/2001 **Submitted By:** JOHN SEAL (REGULATOR)
Type: WELL DESTRUCTION REPORT **Submitted:**
Title: DESTRUCTION OF GROUNDWATER MONITORING WELLS AND SITE CLOSURE SUMMARY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&document_id=5950342

Document Type: Site Documents **Size :**
Document Date: 3/1/2001 **Submitted By:** JOHN SEAL (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER **Submitted:**
Title: WELL DRILLERS REPORTS INSPECTION REQUEST AND AGREEMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=6343327

Document Type: Site Documents **Size :**
Document Date: 2/22/2001 **Submitted By:** (REGULATOR)
Type: * HISTORICAL ENFORCEMENT **Submitted:**
Title: REQUEST FOR ADDITIONAL INFORMATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&enforcement_id=5971323

Document Type: Site Documents **Size :**
Document Date: 2/21/2001 **Submitted By:** JOHN SEAL (REGULATOR)
Type: EMAIL CORRESPONDENCE **Submitted:**
Title: REQUEST FOR DEADLINE EXTENSION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&document_id=5950336

Document Type: Monitoring Reports **Size :** 4,825 KB
Document Date: 10/31/2000 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Title: QUARTERLY GROUNDWATER MONITORING REPORT, THIRD QUARTER 2000 - QUARTERLY GROUNDWATER MONITORING REPORT, THIRD QUARTER 2000
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7223175525/002%2Epdf

Document Type: Monitoring Reports **Size :** 3,224 KB
Document Date: 7/12/2000 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REPORT, SECOND QUARTER 2000 - QUARTERLY GROUNDWATER MONITORING REPORT, SECOND QUARTER 2000
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7163970053/003%2Epdf

Document Type: Monitoring Reports **Size :** 1,700 KB
Document Date: 3/17/2000 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2000 - QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2000
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/2255141317/004%2Epdf

Document Type: Site Documents **Size :**
Document Date: 3/8/2000 **Submitted By:** JOHN SEAL (REGULATOR)
Type: CORRESPONDENCE **Submitted:**
Title: NOTIFICATION OF ON-SITE DRILLING ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&document_id=5950337

Document Type: Monitoring Reports **Size :** 3,881 KB
Document Date: 1/4/2000 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 1999 - 01/04/2000
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/1244234979/005%2Epdf

Document Type: Monitoring Reports **Size :** 1,867 KB
Document Date: 8/27/1999 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REPORT, THIRD QUARTER 1999 - QUARTERLY GROUNDWATER MONITORING REPORT, THIRD QUARTER 1999
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7069584727/006%2Epdf

Document Type: Monitoring Reports **Size :** 1,633 KB
Document Date: 7/8/1999 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REPORT, SECOND QUARTER 1999 - QUARTERLY GROUNDWATER MONITORING REPORT, SECOND QUARTER 1999
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7247191488/007%2Epdf

Document Type: Monitoring Reports **Size :** 1,577 KB
Document Date: 4/27/1999 **Submitted By:** JOHN SEAL (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 1999 - QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 1999
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/8396334588/008%2Epdf

Document Type: Site Documents **Size :**
Document Date: 12/22/1998 **Submitted By:** JOHN SEAL (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**
Title: BASELINE ENVIRONMENTAL INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300727&document_id=5950357

29	4 of 9	ENE	0.17 / 894.24	197.76 / 1	7-ELEVEN INC. STORE# 37994 2401 APPIAN WAY PINOLE CA 94564	CERS TANK

Site ID: 165505 **Latitude:** 37.992632
Longitude: -122.301030

Regulated Programs

EI ID: 10010317
EI Description: Hazardous Waste Generator

EI ID: 10010317
EI Description: Chemical Storage Facilities

EI ID: 10010317
EI Description: Underground Storage Tank

Violations

Violation Date: 07/22/2015
Violation Program: UST
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: Un-Specified
Violation Notes:

Returned to compliance on 07/22/2015.

Violation Description:

UST Program - Design/Construction - For use of Local Ordinance only.

Violations

Violation Date: 06/18/2019
Violation Program: UST
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Notes:

Returned to compliance on 06/18/2019. OBSERVATION: Owner/Operator did not continuously monitor double-walled piping with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected. Dispenser 11/12 had a sensor that went into alarm, but didn't shut off the turbine. The sensor was reprogrammed and retested to show that it shuts down the turbines. CORRECTIVE ACTION: Corrected on site.

Violation Description:

Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.

Violations

Violation Date: 06/01/2021
Violation Program: UST
Violation Source: CERS
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Notes:

OBSERVATION: The ball floats (all 4 USTs 87, 89, 91, and diesel) used as the overfill prevention system is not currently functional. The ust systems do not have secondary containment around the vent and vapor recovery pipes so either ball floats or fill tube shut offs are required. On November 18, 2020 these ball floats were tested and records indicate they failed to activate at 90%. CORRECTIVE ACTION: Repair the ball floats and their position in the USTs by a properly licensed, trained, and certified contractor or replace them with fill tube shut off devices. If fill tube shut off devices will be installed, then please obtain the proper permit. If the failed component can't be replaced immediately, there is a possibility that the UST systems on all 4 tanks may be red tagged to prevent fuel inputs.

Violation Description:

Failure to comply with one or more of the following overfill prevention equipment requirements:
Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or
Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or
Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or
Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the

overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018.

For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter.

For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter.

Inspected within 30 days after a repair to the overfill prevention equipment.

Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer.

Inspected by a certified UST service technician.

Maintain records of overfill prevention equipment inspection for 36 months.

Violations

Violation Date: 07/05/2017
Violation Source: CERS
Violation Program: UST
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Notes:

Returned to compliance on 07/06/2017.

Violation Description:

Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.

Violations

Violation Date: 07/22/2015
Violation Source: CERS
Violation Program: HMRRP
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 09/28/2015.

Violation Description:

Business Plan Program - Administration/Documentation - General

Violations

Violation Date: 07/24/2013
Violation Source: CERS
Violation Program: UST
Violation Division: Contra Costa County Health Services Department
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Notes:

Returned to compliance on 07/24/2013.

Violation Description:

UST Program - Operations/Maintenance - General

Violations

Violation Date: 07/07/2016
Violation Source: CERS
Violation Program: UST
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)

Violation Notes:

Returned to compliance on 07/07/2016.

Violation Description:

Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g.
Restrict or shut off the flow of product through the piping when a leak is detected.

Violations

Violation Date: 06/01/2021
Violation Source: CERS
Violation Program: UST
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Notes:

Returned to compliance on 06/01/2021. OBSERVATION: The Diesel Line leak detector failed to meet one or more of the following requirements: Monitor at least hourly; Capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g.; Restricting or shutting off the flow of product through the piping when a leak is detected. It failed the test. CORRECTIVE ACTION: The diesel mechanical leak detector was replaced with a like for like, veeder root fx 1dn during the inspection correcting the violation.

Violation Description:

Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.

Violations

Violation Date: 06/18/2019
Violation Source: CERS
Violation Program: UST
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2632(c)(2)(A)&(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(c)(2)(A)&(B)
Violation Notes:

Returned to compliance on 06/21/2019. OBSERVATION: The '89 annular sensor cannot be tested, sensor is stuck in "sensor out" close to top of tank, and, therefore, the tank is not monitored. The interstitial space shall be monitored with a monitoring system connected to an audible and visual alarm system. CORRECTIVE ACTION: Immediately contact a properly licensed, trained, and certified contractor to replace the failed component with a functional component (LG 113-x listed, if applicable) and retest as soon as possible.- SERVICE REQUEST ALREADY CALLED IN. SUBMIT VERIFICATION- passing test results TO OUR OFFICE WITHIN 30 DAYS OF RE-TESTING

Violation Description:

Failure to continuously monitor the interstitial space of a double-walled tank with an audible and visual alarm system.

Violations

Violation Date: 06/26/2018
Violation Source: CERS
Violation Program: UST
Violation Division: Contra Costa County Health Services Department
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Notes:

Returned to compliance on 08/17/2018. OBSERVATION: Owner/Operator did not maintain overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity, and activate an audible alarm at least five minutes before the tank overfills; 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Audio failed (visual did work) while testing overfill prevention on the 89 and 91 probe. CORRECTIVE ACTION: Maintain overfill prevention system to meet one of the requirements noted above. Submit [Truncated]

Violation Description:

Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

Enforcements

Enf Action Date: 06/26/2018 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 07/05/2017 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 07/24/2013 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 07/07/2016 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 07/22/2015 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 06/01/2021 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 07/22/2015 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 06/18/2019 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Contra Costa County Health Services Department
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 07/22/2015

Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/01/2021
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 07/24/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 07/24/2013
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 06/18/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 08/17/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 09/21/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 01/10/2018

Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 07/05/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/09/2021
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 01/10/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 07/23/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/24/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/18/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 07/07/2016

Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 06/26/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/22/2015
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 09/10/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/22/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/18/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 09/28/2015
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 07/07/2016

Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 08/03/2017
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 06/01/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 06/01/2021
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 07/07/2016
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Parent Corporation
Entity Name: 7-ELEVEN INC.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: 7-ELEVEN INC.
Entity Title:
Address:
City:
State:
Country:
Zip Code:

Phone: (510) 758-7320

Affil Type Desc: Legal Owner
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country: United States
Zip Code: 75221
Phone: (800) 828-0711

Affil Type Desc: Property Owner
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country: United States
Zip Code: 75221
Phone: (800) 828-0711

Affil Type Desc: UST Tank Operator
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country: United States
Zip Code: 75221
Phone: (800) 828-0711

Affil Type Desc: UST Permit Applicant
Entity Name: STEPHEN BOYD
Entity Title: REGIONAL GASOLINE ENVIRONMENTAL COMPLIANCE MANAGER
Address:
City:
State:
Country:
Zip Code:
Phone: (714) 771-5484

Affil Type Desc: Document Preparer
Entity Name: Steve Skanderson, Stantec
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: ETHAN VALBURG
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country:
Zip Code: 75221
Phone:

Affil Type Desc: UST Tank Owner
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country: United States

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Zip Code: 75221
Phone: (800) 828-0711

Affil Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title:
Address: 4585 Pacheco BlvdSuite 100
City: Martinez
State: CA
Country:
Zip Code: 94553
Phone: (925) 655-3200

Affil Type Desc: Identification Signer
Entity Name: STEPHEN BOYD
Entity Title: REGIONAL GASOLINE ENVIRONMENTAL COMPLIANCE MANAGER
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: UST Property Owner Name
Entity Name: 7-ELEVEN INC.
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country: United States
Zip Code: 75221
Phone: (800) 828-0711

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: P.O. BOX 7-11 ATTN: ENVIRONMENTAL DEPARTMENT
City: DALLAS
State: TX
Country:
Zip Code: 75221
Phone:

Coordinates

Env Int Type Code: HWG
Program ID: 10010317
Latitude: 37.992294
Longitude: -122.300285
Coord Name:
Ref Point Type Desc: Unknown

29	5 of 9	ENE	0.17 / 894.24	197.76 / 1	7-ELEVEN INC. STORE# 37994 2401 Appian Way Pinole CA 94564	UST

Facility ID: 07-000-770750
CERS ID: 10010317
County: Contra Costa
Latitude: 37.992632
Longitude: -122.301037
Permitting Agency: Contra Costa County Health Services Department
Note: Information related to facilities can be searched on Geo Tracker Website: https://geotracker.waterboards.ca.gov/search
Site Facility Type: PERMITTED UNDERGROUND STORAGE TANK (UST)

29	6 of 9	ENE	0.17 / 894.24	197.76 / 1	7 ELEVEN 37994 2401 APPIAN WAY PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAL000418991
Gen Status Universe:	No Report
Contact Name:	JOSE RIOS
Contact Address:	1722 ROUTH STREET , SUITE 1000 , DALLAS , TX, 75201 ,
Contact Phone No and Ext:	972-828-6592
Contact Email:	JOSE.RIOS@7-11.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20160719
Location Latitude:	37.991845
Location Longitude:	-122.300444

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20160719
Handler Name:	7 ELEVEN 37994
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	1722 ROUTH STREET
Name:	JOSE RIOS	***Street 2:***	SUITE 1000
Date Became Current:		***City:***	DALLAS
Date Ended Current:		***State:***	TX
Phone:	972-828-6592	***Country:***	
Source Type:	Implementer	***Zip Code:***	75201
Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	PO BOX 711
Name:	7-ELEVEN INC.	***Street 2:***	
Date Became Current:		***City:***	DALLAS
Date Ended Current:		***State:***	TX
Phone:	714-771-5484	***Country:***	
Source Type:	Implementer	***Zip Code:***	75221

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
29	7 of 9	ENE	0.17 / 894.24	197.76 / 1	VALERO CORNER STORE 3805 2401 APPIAN WAY PINOLE CA 94564-2246	RCRA NON GEN

EPA Handler ID: CAL000384050
Gen Status Universe: No Report
Contact Name: SANDY HUFF
Contact Address: 19500 BULVERDE ROAD , , SAN ANTONIO , TX, 78259-0000 ,
Contact Phone No and Ext: 210-692-2521
Contact Email: SANDY.HUFF@CSTBRANDS.COM
Contact Country:
County Name: CONTRA COSTA
EPA Region: 09
Land Type:
Receive Date: 20130403
Location Latitude: 37.991845
Location Longitude: -122.300444

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20130403
Handler Name: VALERO CORNER STORE 3805
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: CST BRANDS, INC.
Date Became Current:
Date Ended Current:
Phone: 210-692-2521
Source Type: Implementer

Street No:
Street 1: 19500 BULVERDE ROAD
Street 2:
City: SAN ANTIONO
State: TX
Country:
Zip Code: 79259-0000

Owner/Operator Ind: Current Operator
Type: Other
Name: SANDY HUFF

Street No:
Street 1: 19500 BULVERDE ROAD
Street 2:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Date Became Current:		**City:**	SAN ANTONIO
Date Ended Current:		**State:**	TX
Phone:	210-692-2521	**Country:**	
Source Type:	Implementer	**Zip Code:**	78259-0000

29	8 of 9	ENE	0.17 / 894.24	197.76 / 1	7- ELEVEN INC. #37994 2401 APPIAN WAY PINOLE CA 94564	EMISSIONS

2017 Criteria Data

Facility ID:	110386	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.705960279
CO:	7	**ROGT:**	.705960279
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

2017 Toxic Data

Facility ID:	110386	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2018 Criteria Data

Facility ID:	110386	**CERR Code:**	
Facility SIC Code:	5411	**TOGT:**	.705960279
CO:	7	**ROGT:**	.705960279
Air Basin:	SF	**COT:**	
District:	BA	**NOXT:**	
COID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD	**PMT:**	
CHAPIS:		**PM10T:**	

2018 Toxic Data

Facility ID:	110386	**COID:**	CC
Facility SIC Code:	5411	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2019 Criteria Data

CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
Facility ID:	110386	**ROGT:**	.705960279
District:	BA	**COT:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility SIC Code:	5411	**NOXT:**	
CO ID:	CC	**SOXT:**	
DISN:	BAY AREA AQMD		
PM10T:			
TOGT:	.705960279		
PMT:			

2019 Toxic Data

CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
Faccility ID:	110386	**TS:**	
District:	BA	**Health Risk Asmt:**	
Facility SIC Code:	5411	**NonCncrChrnicHazInd:**	
COID:	CC	**NonCncrActeHazInd:**	
DISN:	BAY AREA AQMD		

29	9 of 9	ENE	0.17 / 894.24	197.76 / 1	EXXON R/S 76141 2401 APPIAN WAY PINOLE CA	UST SWEEPS

C C:	I07-000-70750	**D Filename:**	NSITE7
BOE:	44-000285	**Page No:**	221
Comp:	70750	**County:**	CONTRA COSTA
Status:	INACTIVE	**State :**	CA
No of Tanks:	4	**Zip:**	94564
Jurisdict:	CONTRA COSTA COUNTY	**Latitude:**	37.995346
Agency:	ENVIRONMENTAL HEALTH - U.S.T.	**Longitude:**	-122.30226
Phone:	(415) 222-1515	**Georesult:**	S5HPNTSCZA

Tank Details

Tank ID:	000001	**S Contain:**	DOUBLE WALL
O Tank ID:		**Stg:**	
SWRCB No:	07-000-070750-000001	**Storage :**	PRODUCT
Removed:	02-06-92	**Storag Type:**	PRODUCT
Installed:	01-01-90	**P Contain:**	FIBERGLASS
A Date:		**Content:**	REG UNLEADED
Capac:	12000	**ONA:**	
Tank Use:	M.V. FUEL	**D File Name:**	NTANK7

Tank Details

Tank ID:	000003	**S Contain:**	DOUBLE WALL
O Tank ID:		**Stg:**	
SWRCB No:	07-000-070750-000003	**Storage :**	PRODUCT
Removed:	02-06-92	**Storag Type:**	PRODUCT
Installed:	01-01-90	**P Contain:**	FIBERGLASS
A Date:		**Content:**	LEADED
Capac:	12000	**ONA:**	
Tank Use:	M.V. FUEL	**D File Name:**	NTANK7

Tank Details

Tank ID:	000004	**S Contain:**	DOUBLE WALL
O Tank ID:		**Stg:**	
SWRCB No:	07-000-070750-000004	**Storage :**	PRODUCT
Removed:	02-06-92	**Storag Type:**	PRODUCT
Installed:	01-01-90	**P Contain:**	FIBERGLASS
A Date:		**Content:**	DIESEL
Capac:	6000	**ONA:**	
Tank Use:	M.V. FUEL	**D File Name:**	NTANK7

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tank Details

Tank ID:	000002	**S Contain:**	DOUBLE WALL
O Tank ID:		**Stg:**	
SWRCB No:	07-000-070750-000002	**Storage :**	PRODUCT
Removed:	02-06-92	**Storag Type:**	PRODUCT
Installed:	01-01-90	**P Contain:**	FIBERGLASS
A Date:		**Content:**	REG UNLEADED
Capac:	12000	**ONA:**	
Tank Use:	M.V. FUEL	**D File Name:**	NTANK7

30	1 of 1	NW	0.20 / 1,049.04	129.18 / -67	ERIC LIM 1130 ALBERDAN CIRCLE PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAC003095445
Gen Status Universe:	No Report
Contact Name:	ERIC LIM
Contact Address:	1130 ALBERDAN CIRCLE , , PINOLE , CA, 94564 ,
Contact Phone No and Ext:	510-414-2281
Contact Email:	MELISA@ENV-REM.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20201202
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20201202
Handler Name:	ERIC LIM
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1130 ALBERDAN CIRCLE
Name:	ERIC LIM	**Street 2:**	
Date Became Current:		**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	510-414-2281	**Country:**	
Source Type:	Implementer	**Zip Code:**	94564

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	1130 ALBERDAN CIRCLE
Name:	ERIC LIM	**Street 2:**	
Date Became Current:		**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	510-414-2281	**Country:**	
Source Type:	Implementer	**Zip Code:**	94564

31	1 of 1	ENE	0.20 / 1,054.98	229.24 / 33	SUSAN COLE 2510 LYNN DRIVE PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAC003076365
Gen Status Universe:	No Report
Contact Name:	SUSAN COLE
Contact Address:	2510 LYNN DRIVE , , PINOLE , CA, 94564 ,
Contact Phone No and Ext:	510-689-5829
Contact Email:	MARIAE@PWSEI.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20200724
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20200724
Handler Name:	SUSAN COLE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	2510 LYNN DRIVE
Name:	SUSAN COLE	**Street 2:**	
Date Became Current:		**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	510-689-5829	**Country:**	
Source Type:	Implementer	**Zip Code:**	94564

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	2510 LYNN DRIVE
Name:	SUSAN COLE	**Street 2:**	
Date Became Current:		**City:**	PINOLE
Date Ended Current:		**State:**	CA
Phone:	510-689-5829	**Country:**	
Source Type:	Implementer	**Zip Code:**	94564

32	1 of 2	W	0.21 / 1,092.20	211.82 / 15	MICHAELS STORE #4741 1450 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID: FA0031733
CUPA ID: 774509
CERS ID: 10409671

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

32	2 of 2	W	0.21 / 1,092.20	211.82 / 15	MICHAELS STORES INC #4741 1450 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID: CAL000371253
Gen Status Universe: No Report
Contact Name: RYAN DRAPER
Contact Address: 8000 BENT BRANCH DR , , IRVING , TX, 75063 ,
Contact Phone No and Ext: 972-409-5786
Contact Email: DRAPERR@MICHAELS.COM
Contact Country:
County Name: CONTRA COSTA
EPA Region: 09
Land Type:
Receive Date: 20120131
Location Latitude: 37.989612
Location Longitude: -122.308281

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20120131
Handler Name:	MICHAELS STORES INC #4741
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	8000 BENT BRANCH DR
Name:	MICHAELS STORES INC	**Street 2:**	
Date Became Current:		**City:**	IRVING
Date Ended Current:		**State:**	TX
Phone:	972-409-5777	**Country:**	
Source Type:	Implementer	**Zip Code:**	75063-0000

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	8000 BENT BRANCH DR
Name:	RYAN DRAPER	**Street 2:**	
Date Became Current:		**City:**	IRVING
Date Ended Current:		**State:**	TX
Phone:	972-409-5786	**Country:**	
Source Type:	Implementer	**Zip Code:**	75063

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
33	1 of 3	W	0.23 / 1,237.36	178.61 / -18	O'REILLY AUTO PARTS #2833 1442 FITZGERALD DR PINOLE CA 94564	CUPA CONTRACO

Facility ID:	FA0028656
CUPA ID:	771926
CERS ID:	10013683

Detail(s)

Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7202
Program Element:	HMBP: 1K-10K LBS, 0-19 EMPLOYEES

Billing Status:	ACTIVE, BILLABLE
Program Element Code:	7104
Program Element:	HWG: 25 - <50 TONS/YEAR

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
33	2 of 3	W	0.23 / 1,237.36	178.61 / -18	O'REILLY AUTO PARTS STORE 2833 1442 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAL000392642
Gen Status Universe:	No Report
Contact Name:	JOHN BOUNDS
Contact Address:	233 S. PATTERSON AVE. , , SPRINGFIELD , MO, 65802 ,
Contact Phone No and Ext:	417-520-4589
Contact Email:	JBOUNDS2@OREILLYAUTO.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20140110
Location Latitude:	37.989854
Location Longitude:	-122.309591

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20140110
Handler Name:	O'REILLY AUTO PARTS STORE 2833
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	233 S PATTERSON
Name:	O'REILLY AUTO PARTS	***Street 2:***	
Date Became Current:		***City:***	SPRINGFIELD
Date Ended Current:		***State:***	MO
Phone:	417-862-3333	***Country:***	
Source Type:	Implementer	***Zip Code:***	65802-0000

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	233 S. PATTERSON AVE.
Name:	JOHN BOUNDS	***Street 2:***	
Date Became Current:		***City:***	SPRINGFIELD
Date Ended Current:		***State:***	MO
Phone:	417-520-4589	***Country:***	
Source Type:	Implementer	***Zip Code:***	65802

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
33	3 of 3	W	0.23 / 1,237.36	178.61 / -18	O'REILLY AUTO PARTS #2833 1442 FITZGERALD DR PINOLE CA 94564	C&D DEBRIS RECY

County: CONTRA COSTA

Activity Type: USED OIL COLLECTION
Phone No:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
34	1 of 5	SSW	0.24 / 1,264.92	162.22 / -34	WCCUSD/CRESPI MIDDLE SCHOOL 1121 ALLVIEW AVE EL SOBRANTE CA 94803	CUPA CONTRACO

Facility ID: FA0031892
CUPA ID: 774561
CERS ID: 10483258

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7110
Program Element: HWG: REPORTED ZERO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
34	2 of 5	SSW	0.24 / 1,264.92	162.22 / -34	CRESPI MIDDLE SCHOOL 1121 ALLVIEW AVENUE EL SOBRANTE CA 94803	RCRA TSD

EPA Handler ID: CAL000013191
Gen Status Universe: No Report
Contact Name: LUIS FREESE
Contact Address: 1400 , MARINA WAY SOUTH , , RICHMOND , CA, 94804 , US
Contact Phone No and Ext: 510-307-4540
Contact Email: LFREESE@WCCUSD.NET
Contact Country: US
Land Type: District
County Name: CONTRA COSTA
EPA Region: 09
Receive Date: 20180702
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Smelting, Melting and Refining: No
Underground Injection Control: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180702
Handler Name: CRESPI MIDDLE SCHOOL
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D008
Waste Code Description: LEAD

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Name: SANDSTONE CONSTRUCTION SEVICES
Date Became Current: 20180702
Date Ended Current:
Phone: 510-334-7932
Source Type: Notification
Street No: 1680
Street 1: 24TH STREET
Street 2:
City: SAN PABLO
State: CA
Country: US
Zip Code: 94806

Owner/Operator Ind: Current Owner
Type: District
Name: WEST CONTRA COSTA UNIFIED SCHOOL DISTRICT - FACILITIES PLANNING & CONSTRUCTION
Date Became Current: 20180702
Date Ended Current:
Phone: 510-307-4540
Source Type: Notification
Street No: 1400
Street 1: MARINA WAY SOUTH
Street 2:
City: RICHMOND
State: CA
Country: US
Zip Code: 94804

34	3 of 5	SSW	0.24 / 1,264.92	162.22 / -34	CRESPI MIDDLE SCHOOL 1121 ALLVIEW AVENUE EL SOBRANTE CA 94803	RCRA NON GEN

EPA Handler ID: CAL000013191
Gen Status Universe: No Report
Contact Name: LUIS FREESE
Contact Address: 1400 , MARINA WAY SOUTH , , RICHMOND , CA, 94804 , US
Contact Phone No and Ext: 510-307-4540
Contact Email: LFREESE@WCCUSD.NET
Contact Country: US
County Name: CONTRA COSTA
EPA Region: 09
Land Type: District
Receive Date: 20180702
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20180702
Handler Name:	CRESPI MIDDLE SCHOOL
Source Type:	Notification
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Waste Code Details

Hazardous Waste Code:	D008
Waste Code Description:	LEAD

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	1400
Type:	District	**Street 1:**	MARINA WAY SOUTH
Name:	WEST CONTRA COSTA UNIFIED SCHOOL DISTRICT - FACILITIES PLANNING & CONSTRUCTION	**Street 2:**	
Date Became Current:	20180702	**City:**	RICHMOND
Date Ended Current:		**State:**	CA
Phone:	510-307-4540	**Country:**	US
Source Type:	Notification	**Zip Code:**	94804
Owner/Operator Ind:	Current Operator	**Street No:**	1680
Type:	Private	**Street 1:**	24TH STREET
Name:	SANDSTONE CONSTRUCTION SEVICES	**Street 2:**	
Date Became Current:	20180702	**City:**	SAN PABLO
Date Ended Current:		**State:**	CA
Phone:	510-334-7932	**Country:**	US
Source Type:	Notification	**Zip Code:**	94806

34	4 of 5	SSW	0.24 / 1,264.92	162.22 / -34	WCCUSD HARBOUR WAY 1121 ALLVIEW AVE EL SOBRANTE CA 94803	RCRA NON GEN

EPA Handler ID:	CAC002978577
Gen Status Universe:	No Report
Contact Name:	JULIO ARROYO
Contact Address:	125 S 8TH ST , , RICHMOND , CA, 94804 ,
Contact Phone No and Ext:	510-620-2159
Contact Email:	JULIO.ARROYO@WCCUSD.NET
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20180831
Location Latitude:	37.985004

Location Longitude: -122.307593

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20180831
Handler Name:	WCCUSD HARBOUR WAY
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	125 S 8TH ST
Name:	JULIO ARROYO	**Street 2:**	
Date Became Current:		**City:**	RICHMOND
Date Ended Current:		**State:**	CA
Phone:	510-620-2159	**Country:**	
Source Type:	Implementer	**Zip Code:**	94804

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	125 S 8TH ST
Name:	WCCUSD DILLON	**Street 2:**	
Date Became Current:		**City:**	RICHMOND
Date Ended Current:		**State:**	CA
Phone:	510-620-2159	**Country:**	
Source Type:	Implementer	**Zip Code:**	94804

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
34	5 of 5	SSW	0.24 / 1,264.92	162.22 / -34	SABRINA KEYS 1121 ALLVIEW AVE EL SOBRANTE CA 94803-1054	RCRA NON GEN

EPA Handler ID:	CAC003027325
Gen Status Universe:	No Report
Contact Name:	SABRINA KEYS
Contact Address:	1121 ALLVIEW AVE , , EL SOBRANTE , CA, 94803-1054 ,
Contact Phone No and Ext:	510-231-1447
Contact Email:	ADELENEV@CVECORP.COM
Contact Country:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20190801
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20190801
Handler Name:	SABRINA KEYS
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	1121 ALLVIEW AVE
Name:	SABRINA KEYS	**Street 2:**	
Date Became Current:		**City:**	EL SOBRANTE
Date Ended Current:		**State:**	CA
Phone:	510-231-1447	**Country:**	
Source Type:	Implementer	**Zip Code:**	94803-1054
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1121 ALLVIEW AVE
Name:	SABRINA KEYS	**Street 2:**	
Date Became Current:		**City:**	EL SOBRANTE
Date Ended Current:		**State:**	CA
Phone:	510-231-1447	**Country:**	
Source Type:	Implementer	**Zip Code:**	94803-1054

35	***1 of 9***	***W***	***0.24 / 1,282.78***	***172.44 / -24***	***WESTLAKE HARDWARE #148 1440 FITZGERALD DR PINOLE CA 94564***	***CUPA CONTRACO***

Facility ID:	FA0029825
CUPA ID:	773154

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CERS ID: 10017190

Detail(s)

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7203
Program Element: HMBP: 1K-10K LBS, 20+ EMPLOYEES

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7205
Program Element: HMBP: >10K-100K LBS, 20+ EMPLOYEES

Billing Status: ACTIVE, BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

Billing Status: INACTIVE, NON-BILLABLE
Program Element Code: 7101
Program Element: HWG: LESS THAN 5 TONS/YEAR

35	2 of 9	W	0.24 / 1,282.78	172.44 / -24	ORCHARD SUPPLY COMPANY, LLC - SITE #350 1440 FITZGERALD DR PINOLE CA 94564	EMISSIONS
35	3 of 9	W	0.24 / 1,282.78	172.44 / -24	ORCHARD SUPPLY HARDWARE 1440 FITZGERALD DR PINOLE CA 94564	EMISSIONS

2009 Criteria Data

Facility ID: 19274
Facility SIC Code: 5072
CO: 7
Air Basin: SF
District: BA
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:
TOGT: .001
ROGT: .0008367
COT: .004
NOXT: .016
SOXT: 0
PMT: .001
PM10T: .000976

2009 Toxic Data

Facility ID: 19274
Facility SIC Code: 5072
CO: 7
Air Basin: SF
District: BA
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:

2010 Toxic Data

Facility ID: 19274
Facility SIC Code: 5072
CO: 7
Air Basin: SF
District: BA
TS:
Health Risk Asmt:
COID: CC
DISN: BAY AREA AQMD
CHAPIS:
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2011 Criteria Data

Facility ID:	19274	**CERR Code:**	
Facility SIC Code:	5072	**TOGT:**	.001
CO:	7	**ROGT:**	.0008367
Air Basin:	SF	**COT:**	.004
District:	BA	**NOXT:**	.016
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	.0010245901639344262295081967213114754009836
CHAPIS:		**PM10T:**	.001

2011 Toxic Data

Facility ID:	19274	**COID:**	CC
Facility SIC Code:	5072	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		

TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2012 Criteria Data

Facility ID:	19274	**CERR Code:**	
Facility SIC Code:	5072	**TOGT:**	.001
CO:	7	**ROGT:**	.0008367
Air Basin:	SF	**COT:**	.004
District:	BA	**NOXT:**	.016
COID:	CC	**SOXT:**	0
DISN:	BAY AREA AQMD	**PMT:**	.0010245901639344262295081967213114754009836
CHAPIS:		**PM10T:**	.001

2012 Toxic Data

Facility ID:	19274	**COID:**	CC
Facility SIC Code:	5072	**DISN:**	BAY AREA AQMD
CO:	7	**CHAPIS:**	
Air Basin:	SF	**CERR Code:**	
District:	BA		

TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

35	4 of 9	W	0.24 / 1,282.78	172.44 / -24	ORCHARD SUPPLY COMPANY, LLC - 1440 FITZGERALD DR PINOLE CA 94564	EMISSIONS
35	5 of 9	W	0.24 / 1,282.78	172.44 / -24	ORCHARD SUPPLY HARDWARE #0350 1440 FITZGERALD DR PINOLE CA 94564	DELISTED HAZ

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Siteid: 54072
Latitude: 37.271881
Longitude: -119.270230
Original Source: CHAZ
Record Date: 09-JUL-2018

35	6 of 9	W	0.24 / 1,282.78	172.44 / -24	ORCHARD SUPPLY COMPANY LLC DBA ORCHARD SUPPLY HARDWARE #0350 1440 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID: CAL000389951
Gen Status Universe: No Report
Contact Name: LAURIE LITWIN
Contact Address: 2603 , MAIN ST STE 700 , , IRVINE , CA, 92614 , US
Contact Phone No and Ext: 949-891-9026
Contact Email: LAURIE.M.LITWIN@LOWES.COM
Contact Country: US
County Name: CONTRA COSTA
EPA Region: 09
Land Type:
Receive Date: 20191122
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20191122
Handler Name: ORCHARD SUPPLY COMPANY LLC DBA ORCHARD SUPPLY HARDWARE #0350
Source Type: Deactivation
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Street No: 2603
Street 1: MAIN ST STE 700

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Name:	ORCHARD SUPPLY COMPANY, LLC	**Street 2:**	
Date Became Current:		**City:**	IRVINE
Date Ended Current:		**State:**	CA
Phone:	949-891-9026	**Country:**	US
Source Type:	Deactivation	**Zip Code:**	92614
Owner/Operator Ind:	Current Operator	**Street No:**	2603
Type:	Other	**Street 1:**	MAIN ST STE 700
Name:	ORCHARD SUPPLY COMPANY, LLC	**Street 2:**	
Date Became Current:		**City:**	IRVINE
Date Ended Current:		**State:**	CA
Phone:	949-891-9026	**Country:**	US
Source Type:	Deactivation	**Zip Code:**	92614

35	***7 of 9***	***W***	***0.24 / 1,282.78***	***172.44 / -24***	***MINUTE KEY INC 1440 FITZGERALD DRIVE PINOLE CA 94564***	***RCRA NON GEN***

EPA Handler ID:	CAL000438615
Gen Status Universe:	No Report
Contact Name:	JIM ELMASHNI
Contact Address:	4956 , CREEKWOOD DR , , FREMONT , CA, 94555 , US
Contact Phone No and Ext:	650-867-2713
Contact Email:	DIANE@MINUTEKEY.COM
Contact Country:	US
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20191219
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20191219
Handler Name:	MINUTE KEY INC
Source Type:	Deactivation
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	4760 WALNUT ST STE 105
Name:	MINUTE KEY INC	**Street 2:**	
Date Became Current:		**City:**	BOULDER
Date Ended Current:		**State:**	CO
Phone:	303-568-9570	**Country:**	US
Source Type:	Deactivation	**Zip Code:**	80301

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	4760 WALNUT ST STE 105
Name:	MINUTE KEY INC	**Street 2:**	
Date Became Current:		**City:**	BOULDER
Date Ended Current:		**State:**	CO
Phone:	303-568-9570	**Country:**	US
Source Type:	Deactivation	**Zip Code:**	80301

35	***8 of 9***	***W***	***0.24 / 1,282.78***	***172.44 / -24***	***WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148 1440 FITZGERALD DR PINOLE CA 94564***	***RCRA TSD***

EPA Handler ID:	CAL000445397
Gen Status Universe:	No Report
Contact Name:	JEREMY VAN OMMEREN
Contact Address:	14000 MARSHALL DR , , LENEXA , KS, 66215 ,
Contact Phone No and Ext:	913-888-8438
Contact Email:	JVANOMMEREN@WESTLAKEHARDWARE.COM
Contact Country:	
Land Type:	
County Name:	CONTRA COSTA
EPA Region:	09
Receive Date:	20190419
Location Latitude:	37.988892
Location Longitude:	-122.30901

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Receive Date:	20190419
Handler Name:	WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	14000 MARSHALL DR
Name:	WESTLAKE HARDWARE INC	**Street 2:**	
Date Became Current:		**City:**	LENEXA
Date Ended Current:		**State:**	KS
Phone:	913-888-8438	**Country:**	
Source Type:	Implementer	**Zip Code:**	66215

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	14000 MARSHALL DR
Name:	JEREMY VAN OMMEREN	**Street 2:**	
Date Became Current:		**City:**	LENEXA
Date Ended Current:		**State:**	KS
Phone:	913-888-8438	**Country:**	
Source Type:	Implementer	**Zip Code:**	66215

35	9 of 9	W	0.24 / 1,282.78	172.44 / -24	WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148 1440 FITZGERALD DR PINOLE CA 94564	RCRA NON GEN

EPA Handler ID:	CAL000445397
Gen Status Universe:	No Report
Contact Name:	JEREMY VAN OMMEREN
Contact Address:	14000 MARSHALL DR , , LENEXA , KS, 66215 ,
Contact Phone No and Ext:	913-888-8438
Contact Email:	JVANOMMEREN@WESTLAKEHARDWARE.COM
Contact Country:	
County Name:	CONTRA COSTA
EPA Region:	09
Land Type:	
Receive Date:	20190419
Location Latitude:	37.988892
Location Longitude:	-122.30901

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No

Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190419
Handler Name: WESTLAKE HARDWARE INC DBA WESTLAKE HARDWARE PINOLE #148
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: WESTLAKE HARDWARE INC
Date Became Current:
Date Ended Current:
Phone: 913-888-8438
Source Type: Implementer
Street No:
Street 1: 14000 MARSHALL DR
Street 2:
City: LENEXA
State: KS
Country:
Zip Code: 66215

Owner/Operator Ind: Current Operator
Type: Other
Name: JEREMY VAN OMMEREN
Date Became Current:
Date Ended Current:
Phone: 913-888-8438
Source Type: Implementer
Street No:
Street 1: 14000 MARSHALL DR
Street 2:
City: LENEXA
State: KS
Country:
Zip Code: 66215

36	1 of 2	NNE	0.26 / 1,395.19	219.08 / 23	APPIAN 80 EXPRESS CLEANERS 1577 TARA HILLS DRIVE PINOLE CA 94564	VCP

Estor/EPA ID: 60001904
Site Code: 201977
Nat Priority List: NO
Acres: 0.42 ACRES
Special Program:
Funding: SITE PROPONENT
Assembly District: 15
Senate District: 09
School District:
Permit Renewal Lead:
Project Manager: PARAG SHAH
Supervisor: WHITNEY SMITH
Public Partici Spclst:
Census Tract: 6013364002
County: CONTRA COSTA
Latitude: 37.995185
Longitude: -122.303569
APN: 402282002
Cleanup Status: ACTIVE AS OF 7/16/2013
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
Site Type: VOLUNTARY CLEANUP
Office: CLEANUP BERKELEY
Past Use that Caused Contam: DRY CLEANING
Potential Media Affected: INDOOR AIR, SOIL, SOIL VAPOR, UNDER INVESTIGATION
Potential Contamin of Concern:

TPH-GAS VOLATILE ORGANICS (8260B VOCS)

Site History:

The Appian 80 Express Cleaner is located at 1577 Tara Hills Drive within a commercial area of Pinole, California. The property is bordered to the north by Tara Hills Drive, the east by the Bay Area Laser Surgery building (the former Texaco leaking underground storage tank site) and Appian Way, and the Appian 80 Shopping Center is located south and west of the Site. Site features include an approximate 8,500 square-foot (ft2) commercial building complex comprised of four individual tenant spaces as described below: • 1577 Tara Hills Drive – Appian 80 Express Dry Cleaner • 1573 Tara Hills Drive – a fitness center • 1569 Tara Hills Drive – a restaurant • 1565 Tara Hills Drive – a former retail bank A dry-cleaning business has operated at 1577 Tara Hills Drive since 1981. The solvent PCE was apparently used in the dry-cleaning operations until, it appears, 2002. The dry-cleaning solvent DF2000, a synthetic aliphatic hydrocarbon has been used at the Site since 2002. The subsurface beneath the Site has been impacted by VOCs. The distribution of VOCs at the Site in indoor air, soil, soil gas and groundwater appears to be attributable to contributions from releases of PCE at the dry cleaner. The groundwater data indicate that PCE was likely released as a dense non-aqueous phase liquid (DNAPL) at the Site. The highest concentration of PCE was revealed to be within the upper 7-feet below ground surface. The source was characterized at approximately 2-feet below ground surface. A surface drain was identified as the preferential pathway for PCE release to the subsurface outside the dry cleaner buildings. In addition, discharges from the dry-

cleaning tenant space flows in the wastewater building drain south beneath the adjacent tenant spaces and then west toward the connection to the sewer lateral. Beneath the building, PCE has volatilized from the groundwater to indoor air. Soil vapor and indoor air sampling has revealed a pattern consistent with the PCE distribution in groundwater, i.e., VOCs are volatilizing from groundwater to beneath the occupied tenant spaces at the Site. The primary transport mechanism for exposure of the potential receptor population to PCE contamination is through migration and penetration of soil vapors through openings (cracks, piping penetrations, etc.) in the floor slabs to indoor air. The potential route of exposure to the receptor population under these conditions would be inhalation of VOC vapors that have entered indoor breathing space. Potential direct exposures associated with soil matrix and groundwater (e.g., ingestion and dermal contact) are not anticipated to pose an unacceptable risk to on-Site or off-Site receptors. The primary potential receptor population to VOC vapor intrusion is expected to be commercial workers, construction workers, and, possibly, future residents at the Site. A baseline risk assessment was performed to evaluate the potential for human health impacts from indoor air VOCs using the January and August 2012 indoor air sampling data. During August 2012, the cumulative incremental lifetime cancer risk was greater than 1x10-6 under a commercial scenario in the restaurant only, with non-carcinogenic hazard indexes ranging from 0.0 to 0.1 The results of this assessment demonstrates the need for soil vapor remediation. DTSC approved a Removal Action Workplan for the site in July 2018. The final remedy consists of in-situ SSDS/SVE to remove VOCs from the soil and soil vapor, and EISD to remove VOCs from the groundwater. SSDS ports were installed by P&D in 2013, and the SVE pilot system was installed by Environmental Business Solutions in May 2016. SSDS/SVE pilot testing was conducted by WEST during 2016. EISD was pilot tested in October 2015 and an alternative EISD amendment was pilot tested in July 2016. A feasibility study was included in the RAW to compare four remedial action alternatives to address the presence of VOCs in soil, soil gas and groundwater at the Site. Based on the comparative analysis, SSDS, SVE, ICs and EISD with MNA is the preferred remedial alternative based on effectiveness, implementability, and cost. The remedy implementation is expected to take up to 12 months to complete. No excavation of soil or off-Site transport of soil is proposed. The remedial action is intended to cleanup VOCs to levels that will be acceptable for unrestricted land use. A land use covenant (LUC) is proposed as part of the remedy until VOC levels decrease to a level that is acceptable for unrestricted use. Groundwater remediation began in May 2020 and should be completed by October 2020. The SVE treatment system began operation on September 22, 2020. WEST conducted the first round of groundwater and vapor sampling during August 2020. 02-Oct-2020 PS

Status: ACTIVE
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: 76-80%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60001904

Future Activities

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Certification
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Land Use Restriction
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Completion Report
Due Date: 2022

Completed Activities

Title: Annual Oversight Cost Estimate 2021 - 2022
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60504010
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/9/2021
Comments: Final DTSC Cost Letter

Title: Scoping meeting
Title Link:
Area Name:

Area Link:
Sub Area:
Sub Area Link:
Document Type: Voluntary Cleanup Consultation
Date Completed: 3/26/2014
Comments: Meeting was held from 1:30 PM to 4:30 PM. Discussion covered the next steps for the site. A VCA amendment will be needed to cover the scope of work and new cost estimate. The next step will be a Pilot test workplan for a DPE system with additional wells for at least 2 months.

Title: Soil Vapor Extraction Pilot Test Report prepared by P&D Environmental 06/06/2013
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332912
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Supplemental Site Investigation Fieldwork
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 3/18/2016
Comments: RP completed further delineation of VOC plume beneath dry cleaner that may extend beneath neighboring unit. Investigation findings will be presented in report for DTSC review.

Title: Annual Oversight Cost Estimate FY 2017/2018
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60431609
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/29/2017
Comments: The Annual Cost Estimate is completed and a letter was sent to the RP.

Title: MOA # 559 Application
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332853
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Application
Date Completed: 7/17/2013
Comments:

Title: Annual Cost Estimate 2014-2015
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60361273
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/23/2014
Comments: DTSC estimate of DTSC's oversight costs for the 2014/2015 fiscal year from July 1, 2014 to June 30, 2015. Estimate is based on schedule of expected activities, estimates of DTSC staff hours for each activity and DTSC's contract estimation rates for the fiscal year.

Title: Community Profile
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60369626
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Community Profile

Date Completed: 12/10/2015
Comments: The community profile documents the concerns and potential concerns that the community has or might have regarding health risks and cleanup at the site. It describes anticipated public participation activities. Recommended activities include publishing a notice of the draft Removal Action Workplan, providing a public comment period of 30 days, holding a public meeting if necessary and preparing a response to public comments.

Title: Subsurface Investigation Report (SB4-SB-9) prepared by P&D Environmental 06/09/2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332900
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Notice of Exemption
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60397606
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: CEQA - Notice of Exemption
Date Completed: 4/11/2018
Comments: Final NOE was stamped before the public comment.

Title: Work Notice for Field Implementation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60489096
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Work Notice
Date Completed: 6/2/2020
Comments:

Title: Indoor Air Investigation Report (IA7- IA-12 Sampling event 2012- 08/15/2012 & 08/31/2012) prepared by P&D Environmental 03/26/2013
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332910
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Supplemental Site Investigation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60407761
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Characterization Report
Date Completed: 2/23/2017
Comments: RP stated that the comments would be addressed in the draft RAW.

Title: Well Installation Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60341311
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Well Installation Workplan
Date Completed: 11/22/2013
Comments: GSU approved the plan and letter was signed by Dan.

Title: Appian 80 Express Cleaners Responsiveness Summary -Draft Removal Action Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60446464

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Other Report
Date Completed: 7/12/2018
Comments:

Title: Annual Oversight Cost Estimate 2020 - 2021
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60485235
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/2/2020
Comments:

Title: Appian 80 Express Cleaners Tara Hills Drive Limited v Petker
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 3/26/2014
Comments: Letter hand delivered at Scoping Meeting on March 26,2014. Letter informs DTSC that a Federal lawsuit has been filed- Case Number C-11-06610 EDL on 02/14/2011 for former owners and operators of the site.

Title: Well Installation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60354631
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Well Completion Report
Date Completed: 4/11/2014
Comments: The report was approved. The report detailed the installation of 2 wells and sampling results. A scoping meeting was held in March to determine the next steps for the project.

Title: Annual Oversight Cost Estimate FY 2015/2016
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60377332
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/11/2015
Comments: Schedule and cost estimate of DTSC oversight activities at the site for the 2015/2016 fiscal year (July 1, 2015-June 30, 2016).

Title: Workplan for Supplemental Site Investigation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60399490
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Characterization Workplan
Date Completed: 10/12/2015
Comments:

Title: Site Visit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60490093
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 1/12/2021

Comments:

Title: Project Management 2020 - 2021
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Project Management
Date Completed: 6/30/2021
Comments: completed fiscal year

Title: Application and correspondance with BAAQMD for installlation of the SVE system
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60332914
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 5/20/2013
Comments: This application to BAAQMD was sent by the RP and consultant prior to lead agency determination. Correspondance back to RP & Consultant dated 05/20/2013. DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy. The date was verbally moved to August 15th for the fees to be paid. See letter from 8-13-2013 sent by DTSC.

Title: Interim Removal Action Workplan for Indoor Air and Source Removal
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60369546
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Date Completed: 1/30/2015
Comments: Interim workplan to conduct soil excavation to remove source of volatile organic compound (VOC) and installation of a soil vapor extraction system to prevent intrusion of VOC gases into indoor air. Further characterization of the contamination will be completed after the interim activities and a final cleanup plan will be developed.

Title: Tribal Consultation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60436132
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 6/1/2018
Comments: Office of EJTA determined the tribal consultation process completed for this site.

Title: Removal Action Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60397596
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Date Completed: 7/17/2018
Comments:

Title: Well Installation scheduled date of drilling at the site. 2 wells in ~ 1 location- on December 12th..
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 12/12/2013
Comments: Drilled 2 wells.

Title: Environmental Transaction Screen prepared by Basics Environmental January 15, 2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332894

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Source Area Delineation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60397386
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Treatability Study Report
Date Completed: 8/31/2015
Comments: Soil and groundwater sampling was conducted to delineate the source of soil contamination of tetrachloroethene. Investigation identified an area east of the site along the back wall containing the highest concentrations, up to 1,660 milligrams per kilogram in soil. After consultations between DTSC and consultant, it was agreed that further characterization of contamination at the source area was needed.

Title: Work Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60399798
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Work Notice
Date Completed: 10/19/2015
Comments: Notice informing the community of fieldwork that will be taking place the week of Oct 19th. Soil will be excavated by hand to expose drain lines to collect samples.

Title: Subsurface and Indoor Air Investigation Report (SB13-SB-202; IA1-IA6) prepared by P&D Environmental 07/18/2012
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332908
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Annual Oversight Cost Estimate FY 2018/2019
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60431610
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/30/2018
Comments: Completed the Appian 80 cost estimate for FY 2018-2019

Title: APPIAN 80 RAW FACT SHEET
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60416801
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fact Sheets
Date Completed: 5/29/2018
Comments:

Title: Determination of occupancy of 4 tenant spaces for SVE
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60332533
Area Name:
Area Link:
Sub Area:
Sub Area Link:

Document Type: Correspondence
Date Completed: 8/13/2013
Comments: Letter sent to RP about the approved SVE system by the BAAQMD and DTSC's no objection to the system. The system is NOT a final remedy for the site. The proposed SVE sytem was not reviewed by DTSC. The purpose is to have the City of Pinole to approve permits for SVE installation. DTSC did not object to the occupancy of the four tenant spaces. More work may be needed. Changes and modifications may be required as DTSC's process continues to evaluate the contaminants of concern at the site.

Title: Cost Estimate Letter 16-17
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60418516
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/7/2016
Comments: Cost Estimate Letter

Title: Interim Removal Action Fieldwork Work Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60387962
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Work Notice
Date Completed: 3/2/2015
Comments: Fact sheet to inform the community about the upcoming interim fieldwork scheduled from March 5. The fieldwork will take place according to the approved workplan, which was developed as a result of investigations that found tetrachloroethene in soil and groundwater beneath the site. Activities that are taking place include excavation of contaminated soil, installation of a soil vapor extraction system, and installation of groundwater monitoring wells.

Title: Amendment #1 to Voluntary Cleanup Agreement
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60376636
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Amendment - Order/Agreement
Date Completed: 9/24/2014
Comments: Amendment to VCA to expand scope of work to include interim removal action workplan, CEQA, public participation and implementation of the interim removal action workplan. The advance payment was also increased to accommodate the increased scope of work.

Title: Annual Cost Estimate 2019 - 2020
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60470729
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 11/1/2019
Comments:

Title: Subsurface Investigation Report (SB10-SB-12; SG1-SG3) prepared by P&D Environmental 09/22/2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332902
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Limited phase II Environmental Sampling prepared by Basics Environmental 02/11/2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332896
Area Name:
Area Link:
Sub Area:
Sub Area Link:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Document Type: Technical Report
Date Completed: 7/17/2013
Comments:

Title: RAW Public Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60397602
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 5/29/2018
Comments:

Title: Voluntary Cleanup Agreement (VCA)
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60331694
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 10/31/2013
Comments: VCA signed on October 31, 2013. It included reviewing existing documentation, and a well installation workplan besides the VCA. A check is being sent to Sacramento for the deposit of $ 12,000.

Title: Site Visit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60434895
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Inspections/Visit (Non LUR)
Date Completed: 8/30/2017
Comments: Karen DiBiasio, Renato Matrano Jr, and Hongbo Zhu visited the Site and discussed the possible locations for additional monitoring wells with Sharon Squire.

36	2 of 2	NNE	0.26 / 1,395.19	219.08 / 23	APPIAN 80 EXPRESS CLEANERS 1577 TARA HILLS DRIVE PINOLE CA 94564	ENVIROSTOR

Estor/EPA ID:	60001904	**Assembly District:**	15
Site Code:	201977	**Senate District:**	09
Nat Priority List:	NO	**Permit Renewal Lead:**	
APN:	402282002	**Public Partici Spclst:**	
Census Tract:	6013364002	**Project Manager:**	PARAG SHAH
Site Type:	VOLUNTARY CLEANUP	**County:**	CONTRA COSTA
Address Description:	1577 TARA HILLS DRIVE	**Latitude:**	37.995185
Office:	CLEANUP BERKELEY	**Longitude:**	-122.303569
Special Program:		**Acres:**	0.42 ACRES
Funding:	SITE PROPONENT	**Supervisor:**	WHITNEY SMITH

Cleanup Status: ACTIVE AS OF 7/16/2013
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
School District:
Past Use that Caused Contam: DRY CLEANING
Potential Media Affected: INDOOR AIR, SOIL, SOIL VAPOR, UNDER INVESTIGATION
Potential Contamin of Concern:

TPH-GAS VOLATILE ORGANICS (8260B VOCS)

Site History:

The Appian 80 Express Cleaner is located at 1577 Tara Hills Drive within a commercial area of Pinole, California. The property is bordered to the north by Tara Hills Drive, the east by the Bay Area Laser Surgery building (the former Texaco leaking underground storage tank site) and Appian Way, and the Appian 80 Shopping Center is located south and west of the Site. Site features include an approximate 8,500 square-foot (ft2) commercial building complex comprised of four individual tenant spaces as described below: • 1577 Tara Hills Drive – Appian 80 Express Dry Cleaner • 1573 Tara Hills Drive – a fitness center • 1569 Tara Hills Drive – a restaurant • 1565 Tara Hills Drive – a former retail bank A dry-cleaning business has operated at 1577 Tara Hills Drive since 1981. The solvent PCE was apparently used in the dry-cleaning operations until, it appears, 2002. The dry-cleaning solvent DF2000, a synthetic aliphatic hydrocarbon has been used at the Site since 2002. The subsurface beneath the Site has been impacted by VOCs. The distribution of

VOCs at the Site in indoor air, soil, soil gas and groundwater appears to be attributable to contributions from releases of PCE at the dry cleaner. The groundwater data indicate that PCE was likely released as a dense non-aqueous phase liquid (DNAPL) at the Site. The highest concentration of PCE was revealed to be within the upper 7-feet below ground surface. The source was characterized at approximately 2-feet below ground surface. A surface drain was identified as the preferential pathway for PCE release to the subsurface outside the dry cleaner buildings. In addition, discharges from the dry-cleaning tenant space flows in the wastewater building drain south beneath the adjacent tenant spaces and then west toward the connection to the sewer lateral. Beneath the building, PCE has volatilized from the groundwater to indoor air. Soil vapor and indoor air sampling has revealed a pattern consistent with the PCE distribution in groundwater, i.e., VOCs are volatilizing from groundwater to beneath the occupied tenant spaces at the Site. The primary transport mechanism for exposure of the potential receptor population to PCE contamination is through migration and penetration of soil vapors through openings (cracks, piping penetrations, etc.) in the floor slabs to indoor air. The potential route of exposure to the receptor population under these conditions would be inhalation of VOC vapors that have entered indoor breathing space. Potential direct exposures associated with soil matrix and groundwater (e.g., ingestion and dermal contact) are not anticipated to pose an unacceptable risk to on-Site or off-Site receptors. The primary potential receptor population to VOC vapor intrusion is expected to be commercial workers, construction workers, and, possibly, future residents at the Site. A baseline risk assessment was performed to evaluate the potential for human health impacts from indoor air VOCs using the January and August 2012 indoor air sampling data. During August 2012, the cumulative incremental lifetime cancer risk was greater than 1x10-6 under a commercial scenario in the restaurant only, with non-carcinogenic hazard indexes ranging from 0.0 to 0.1 The results of this assessment demonstrates the need for soil vapor remediation. DTSC approved a Removal Action Workplan for the site in July 2018. The final remedy consists of in-situ SSDS/SVE to remove VOCs from the soil and soil vapor, and EISD to remove VOCs from the groundwater. SSDS ports were installed by P&D in 2013, and the SVE pilot system was installed by Environmental Business Solutions in May 2016. SSDS/SVE pilot testing was conducted by WEST during 2016. EISD was pilot tested in October 2015 and an alternative EISD amendment was pilot tested in July 2016. A feasibility study was included in the RAW to compare four remedial action alternatives to address the presence of VOCs in soil, soil gas and groundwater at the Site. Based on the comparative analysis, SSDS, SVE, ICs and EISD with MNA is the preferred remedial alternative based on effectiveness, implementability, and cost. The remedy implementation is expected to take up to 12 months to complete. No excavation of soil or off-Site transport of soil is proposed. The remedial action is intended to cleanup VOCs to levels that will be acceptable for unrestricted land use. A land use covenant (LUC) is proposed as part of the remedy until VOC levels decrease to a level that is acceptable for unrestricted use. Groundwater remediation began in May 2020 and should be completed by October 2020. The SVE treatment system began operation on September 22, 2020. WEST conducted the first round of groundwater and vapor sampling during August 2020.
02-Oct-2020 PS

Status: ACTIVE
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: 76-80%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60001904

Future Activities

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Land Use Restriction
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Certification
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Completion Report
Due Date: 2022

Completed Activities

Title: APPIAN 80 RAW FACT SHEET
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60416801
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fact Sheets
Date Completed: 5/29/2018
Comments:

Title: Annual Oversight Cost Estimate FY 2017/2018
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60431609
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/29/2017
Comments: The Annual Cost Estimate is completed and a letter was sent to the RP.

Title: Annual Oversight Cost Estimate FY 2018/2019
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60431610
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/30/2018
Comments: Completed the Appian 80 cost estimate for FY 2018-2019

Title: MOA # 559 Application
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332853
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Application
Date Completed: 7/17/2013
Comments:

Title: Subsurface Investigation Report (SB4-SB-9) prepared by P&D Environmental 06/09/2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332900
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Subsurface and Indoor Air Investigation Report (SB13-SB-202; IA1-IA6) prepared by P&D Environmental 07/18/2012
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332908
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Annual Cost Estimate 2014-2015
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60361273
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/23/2014
Comments: DTSC estimate of DTSC's oversight costs for the 2014/2015 fiscal year from July 1, 2014 to June 30, 2015. Estimate is based on schedule of expected activities, estimates of DTSC staff hours for each activity and DTSC's contract estimation rates for the fiscal year.

Title: Appian 80 Express Cleaners Responsiveness Summary -Draft Removal Action Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60446464
Area Name:
Area Link:
Sub Area:
Sub Area Link:

Document Type: Other Report
Date Completed: 7/12/2018
Comments:

Title: Limited phase II Environmental Sampling prepared by Basics Environmental 02/11/2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332896
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments:

Title: RAW Public Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60397602
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 5/29/2018
Comments:

Title: Removal Action Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60397596
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Date Completed: 7/17/2018
Comments:

Title: Site Visit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60434895
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Inspections/Visit (Non LUR)
Date Completed: 8/30/2017
Comments: Karen DiBiasio, Renato Matrano Jr, and Hongbo Zhu visited the Site and discussed the possible locations for additional monitoring wells with Sharon Squire.

Title: Subsurface Investigation Report (SB10-SB-12; SG1-SG3) prepared by P&D Environmental 09/22/2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332902
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Voluntary Cleanup Agreement (VCA)
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60331694
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 10/31/2013
Comments: VCA signed on October 31, 2013. It included reviewing existing documentation, and a well installation workplan besides the VCA. A check is being sent to Sacramento for the deposit of $ 12,000.

Title: Work Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60399798
Area Name:

Area Link:
Sub Area:
Sub Area Link:
Document Type: Work Notice
Date Completed: 10/19/2015
Comments: Notice informing the community of fieldwork that will be taking place the week of Oct 19th. Soil will be excavated by hand to expose drain lines to collect samples.

Title: Annual Oversight Cost Estimate FY 2015/2016
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60377332
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/11/2015
Comments: Schedule and cost estimate of DTSC oversight activities at the site for the 2015/2016 fiscal year (July 1, 2015-June 30, 2016).

Title: Community Profile
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60369626
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Community Profile
Date Completed: 12/10/2015
Comments: The community profile documents the concerns and potential concerns that the community has or might have regarding health risks and cleanup at the site. It describes anticipated public participation activities. Recommended activities include publishing a notice of the draft Removal Action Workplan, providing a public comment period of 30 days, holding a public meeting if necessary and preparing a response to public comments.

Title: Cost Estimate Letter 16-17
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60418516
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/7/2016
Comments: Cost Estimate Letter

Title: Determination of occupancy of 4 tenant spaces for SVE
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60332533
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 8/13/2013
Comments: Letter sent to RP about the approved SVE system by the BAAQMD and DTSC's no objection to the system. The system is NOT a final remedy for the site. The proposed SVE sytem was not reviewed by DTSC. The purpose is to have the City of Pinole to approve permits for SVE installation. DTSC did not object to the occupancy of the four tenant spaces. More work may be needed. Changes and modifications may be required as DTSC's process continues to evaluate the contaminants of concern at the site.

Title: Notice of Exemption
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60397606
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: CEQA - Notice of Exemption
Date Completed: 4/11/2018
Comments: Final NOE was stamped before the public comment.

Title: Scoping meeting
Title Link:
Area Name:

Area Link:
Sub Area:
Sub Area Link:
Document Type: Voluntary Cleanup Consultation
Date Completed: 3/26/2014
Comments: Meeting was held from 1:30 PM to 4:30 PM. Discussion covered the next steps for the site. A VCA amendment will be needed to cover the scope of work and new cost estimate. The next step will be a Pilot test workplan for a DPE system with additional wells for at least 2 months.

Title: Soil Vapor Extraction Pilot Test Report prepared by P&D Environmental 06/06/2013
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332912
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Supplemental Site Investigation Fieldwork
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 3/18/2016
Comments: RP completed further delineation of VOC plume beneath dry cleaner that may extend beneath neighboring unit. Investigation findings will be presented in report for DTSC review.

Title: Annual Oversight Cost Estimate 2020 - 2021
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60485235
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/2/2020
Comments:

Title: Environmental Transaction Screen prepared by Basics Environmental January 15, 2008
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332894
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Interim Removal Action Workplan for Indoor Air and Source Removal
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60369546
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Date Completed: 1/30/2015
Comments: Interim workplan to conduct soil excavation to remove source of volatile organic compound (VOC) and installation of a soil vapor extraction system to prevent intrusion of VOC gases into indoor air. Further characterization of the contamination will be completed after the interim activities and a final cleanup plan will be developed.

Title: Project Management 2020 - 2021
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Project Management

Date Completed: 6/30/2021
Comments: completed fiscal year

Title: Source Area Delineation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60397386
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Treatability Study Report
Date Completed: 8/31/2015
Comments: Soil and groundwater sampling was conducted to delineate the source of soil contamination of tetrachloroethene. Investigation identified an area east of the site along the back wall containing the highest concentrations, up to 1,660 milligrams per kilogram in soil. After consultations between DTSC and consultant, it was agreed that further characterization of contamination at the source area was needed.

Title: Supplemental Site Investigation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60407761
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Characterization Report
Date Completed: 2/23/2017
Comments: RP stated that the comments would be addressed in the draft RAW.

Title: Well Installation Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60341311
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Well Installation Workplan
Date Completed: 11/22/2013
Comments: GSU approved the plan and letter was signed by Dan.

Title: Workplan for Supplemental Site Investigation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60399490
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Characterization Workplan
Date Completed: 10/12/2015
Comments:

Title: Interim Removal Action Fieldwork Work Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60387962
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Work Notice
Date Completed: 3/2/2015
Comments: Fact sheet to inform the community about the upcoming interim fieldwork scheduled from March 5. The fieldwork will take place according to the approved workplan, which was developed as a result of investigations that found tetrachloroethene in soil and groundwater beneath the site. Activities that are taking place include excavation of contaminated soil, installation of a soil vapor extraction system, and installation of groundwater monitoring wells.

Title: Site Visit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60490093
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 1/12/2021
Comments:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Title: Tribal Consultation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60436132
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 6/1/2018
Comments: Office of EJTA determined the tribal consultation process completed for this site.

Title: Well Installation scheduled date of drilling at the site. 2 wells in ~ 1 location- on December 12th..
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 12/12/2013
Comments: Drilled 2 wells.

Title: Annual Oversight Cost Estimate 2021 - 2022
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60504010
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/9/2021
Comments: Final DTSC Cost Letter

Title: Indoor Air Investigation Report (IA7- IA-12 Sampling event 2012- 08/15/2012 & 08/31/2012) prepared by P&D Environmental 03/26/2013
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60332910
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 7/17/2013
Comments: DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy.

Title: Annual Cost Estimate 2019 - 2020
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60470729
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 11/1/2019
Comments:

Title: Appian 80 Express Cleaners Tara Hills Drive Limited v Petker
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 3/26/2014
Comments: Letter hand delivered at Scoping Meeting on March 26,2014. Letter informs DTSC that a Federal lawsuit has been filed- Case Number C-11-06610 EDL on 02/14/2011 for former owners and operators of the site.

Title: Work Notice for Field Implementation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60489096
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Work Notice

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Date Completed: 6/2/2020
Comments:

Title: Amendment #1 to Voluntary Cleanup Agreement
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60376636
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Amendment - Order/Agreement
Date Completed: 9/24/2014
Comments: Amendment to VCA to expand scope of work to include interim removal action workplan, CEQA, public participation and implementation of the interim removal action workplan. The advance payment was also increased to accommodate the increased scope of work.

Title: Application and correspondance with BAAQMD for installlation of the SVE system
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&enforcement_id=60332914
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 5/20/2013
Comments: This application to BAAQMD was sent by the RP and consultant prior to lead agency determination. Correspondance back to RP & Consultant dated 05/20/2013. DTSC did not provide oversight for this activity. DTSC has NOT reviewed this report for technical accuracy. The date was verbally moved to August 15th for the fees to be paid. See letter from 8-13-2013 sent by DTSC.

Title: Well Installation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60001904&doc_id=60354631
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Well Completion Report
Date Completed: 4/11/2014
Comments: The report was approved. The report detailed the installation of 2 wells and sampling results. A scoping meeting was held in March to determine the next steps for the project.

37	1 of 1	NNE	0.28 / 1,485.81	232.13 / 36	TEXACO 1599 TARA HILLS DR PINOLE CA 94564	LUST

Global ID: T0601300298
Status: COMPLETED - CASE CLOSED
Status Date: 5/14/2012
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: CONTRA COSTA
Latitude: 37.9951502776976
Longitude: -122.302816908073

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 07-0319
Local Case No: 70016
Begin Date: 4/22/1986
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency: CONTRA COSTA COUNTY
CUF Case: YES
Potential Media of Concern: Other Groundwater (uses other than drinking water)
How Discovered Description:
Calwater Watershed Name: San Pablo - Pinole (206.60)
DWR GW Subbasin Name:
Disadvantaged Community: Severely Disadvantaged Community
Calenviroscreen Score: 76-80%
Site History:
Potential COC: Gasoline
How Discovered: Tank Closure
Stop Method:
Stop Description:
Case Worker: MYM
File Location:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 6/11/2015
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 2/10/2015
Action: Letter - Notice

Action Type: ENFORCEMENT
Date : 5/14/2012
Action: Closure/No Further Action Letter

Action Type: ENFORCEMENT
Date : 7/14/2010
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: RESPONSE
Date : 10/30/2009
Action: Monitoring Report - Semi-Annually

Action Type: RESPONSE
Date : 10/21/2009
Action: Monitoring Report - Semi-Annually

Action Type: ENFORCEMENT
Date : 7/28/2009
Action: 13267 Monitoring Program

Action Type: RESPONSE
Date : 1/30/2009
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/30/2008
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/31/2008
Action: Public Participation Plan

Action Type: ENFORCEMENT
Date : 12/26/2007
Action: 13267 Requirement

Action Type: RESPONSE
Date : 10/30/2007
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 5/10/2007
Action: 13267 Requirement

Action Type: RESPONSE
Date : 5/10/2007
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 4/30/2007
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/30/2006
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/30/2006
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/30/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/30/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/30/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/31/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/31/2004
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/31/2004
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/30/2004
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/30/2004
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/30/2003
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 5/6/2003
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 2/7/2003
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 11/22/2002
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 7/1/2002
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 1/23/1991
Action: Technical Correspondence / Assistance / Other

Action Type: Other
Date : 11/7/1986
Action: Leak Reported

Action Type: Other
Date : 9/22/1986
Action: Leak Discovery

Action Type: Other
Date : 9/22/1986
Action: Leak Stopped

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Local Agency Caseworker
Contact Name: MELISSA HAGEN
City: MARTINEZ
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BOULEVARD
Email: melissa.hagen@hsd.cccounty.us
Phone No: 9256462286

Contact Type: Regional Board Caseworker
Contact Name: MARTIN MUSONGE
City: OAKLAND
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
Email: martin.musonge@waterboards.ca.gov
Phone No:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 5/14/2012

Status: Open - Verification Monitoring
Status Date: 3/28/2011

Status: Open - Site Assessment
Status Date: 5/10/2007

Status: Open - Site Assessment
Status Date: 2/17/1987

Status: Open - Site Assessment
Status Date: 11/25/1986

Status: Open - Case Begin Date
Status Date: 4/22/1986

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: TEXACO
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig: D
CUF Amount Paid: $633,378
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 1599 TARA HILLS DR
City: PINOLE
Zip: 94564
County: CONTRA COSTA
CUF Claim: 6183
File Location:
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0601300298
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 5/14/2012
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0601300298&tabname=regulatoryhistory
Potential Media of Concern: OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)
User Defined Beneficial Use:
DWR GW Sub Basin:
Calwater Watershed Name: San Pablo - Pinole (206.60)
Post Closure Site Management: NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL
NOTIFY PRIOR TO CHANGE IN LAND USE
NOTIFY PRIOR TO DEVELOPMENT
NOTIFY PRIOR TO SUBSURFACE WORK
Future Land Use:
Cleanup Oversight Agencies: SAN FRANCISCO BAY RWQCB (REGION 2) (LEAD) - CASE #: 07-0319
CASEWORKER: MARTIN MUSONGE
CONTRA COSTA COUNTY - CASE #: 70016
CASEWORKER: MELISSA HAGEN
Gndwater Monitoring Freque: # OF WELLS MONITORED - SEMI-ANNUALLY : 12
Designated Beneficial Use Desc: Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 5/14/2012

Status: Open - Verification Monitoring
Date : 3/28/2011

Status: Open - Site Assessment
Date : 5/10/2007

Status: Open - Site Assessment
Date : 2/17/1987

Status: Open - Site Assessment
Date : 11/25/1986

Status: Open - Case Begin Date
Date : 4/22/1986

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 6/11/2015
Received Issue Date: 6/11/2015
Action: Technical Correspondence / Assistance / Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6248452&temptable=ENFORCEMENT
Title Description Comments:

RCRA Notice of Intent

Action Type: Notices
Action Date: 2/10/2015
Received Issue Date: 2/10/2015
Action: Letter - Notice
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6244277&temptable=ENFORCEMENT
Title Description Comments:

RCRA Notice

Action Type: Other Regulatory Actions
Action Date: 5/14/2012
Received Issue Date: 5/14/2012
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6121874&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 7/14/2010
Received Issue Date: 7/14/2010
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6391344&temptable=ENFORCEMENT
Title Description Comments:

USTCF Preliminary 5-Year Review Summary June 2008

Action Type: Response Requested - Reports
Action Date: 10/21/2009
Received Issue Date: 10/21/2009
Action: Monitoring Report - Semi-Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300298&doc_id=5738230
Title Description Comments:

2nd Semi-annual Groundwater Monitoring Report '09

Action Type: Enforcement/Orders
Action Date: 7/28/2009
Received Issue Date: 7/28/2009
Action: 13267 Monitoring Program
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6024475&temptable=ENFORCEMENT
Title Description Comments:

Requirement for Reduced Monitoring and Sampling and to Submit Technical Reports

Action Type: Response Requested - Reports
Action Date: 1/30/2009
Received Issue Date: 1/2/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300298&doc_id=5634111
Title Description Comments:

Groundwater Monitoring and Sampling Report Fourth Quarter Event of November 12, 2008

Action Type: Response Requested - Reports
Action Date: 10/30/2008
Received Issue Date: 10/14/2008
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300298&doc_id=5626585
Title Description Comments:

3rdQM08

Action Type: Enforcement/Orders
Action Date: 12/26/2007
Received Issue Date: 12/26/2007
Action: 13267 Requirement
Doc Link:
Title Description Comments:

Public Participation

Action Type: Response Requested - Reports
Action Date: 10/30/2007
Received Issue Date: 9/28/2007
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 3rdQM07

Action Type: Enforcement/Orders
Action Date: 5/10/2007
Received Issue Date: 5/10/2007
Action: 13267 Requirement
Doc Link:
Title Description Comments:

Investigation Workplan

Action Type: Response Requested - Reports
Action Date: 5/10/2007
Received Issue Date: 5/10/2007
Action: Soil and Water Investigation Report
Doc Link:
Title Description Comments:

Investigation Progress Report - Investigation Workplan

Action Type: Response Requested - Reports
Action Date: 4/30/2007
Received Issue Date: 3/27/2007
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stQM07

Action Type: Response Requested - Reports
Action Date: 10/30/2006
Received Issue Date: 10/10/2006
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 3rdQM06

Action Type: Response Requested - Reports
Action Date: 7/30/2006
Received Issue Date: 7/7/2006
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndQM06

Action Type: Response Requested - Reports
Action Date: 10/30/2005
Received Issue Date: 10/5/2005
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 3rdQM05

Action Type: Response Requested - Reports
Action Date: 7/30/2005
Received Issue Date: 7/5/2005
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndQM05

Action Type: Response Requested - Reports
Action Date: 4/30/2005
Received Issue Date: 4/19/2005
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stQM05

Action Type: Response Requested - Reports
Action Date: 1/31/2005
Received Issue Date: 1/19/2005
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 4thQM04

Action Type: Response Requested - Reports
Action Date: 10/31/2004
Received Issue Date: 10/19/2004
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 3rdQM04

Action Type: Response Requested - Reports
Action Date: 7/31/2004
Received Issue Date: 7/21/2004
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndQM04

Action Type: Response Requested - Reports
Action Date: 4/30/2004
Received Issue Date: 4/15/2004
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stQM04

Action Type: Response Requested - Reports
Action Date: 1/30/2004
Received Issue Date: 1/15/2004
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 4thQM03

Action Type: Response Requested - Reports
Action Date: 10/30/2003
Received Issue Date: 10/9/2003
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 3rdQM03

Action Type: Response Requested - Reports
Action Date: 5/6/2003
Received Issue Date: 4/16/2003
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - First Quarter 2003 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 2/7/2003
Received Issue Date: 2/7/2003
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - wpl

Action Type: Response Requested - Reports
Action Date: 11/22/2002
Received Issue Date: 11/22/2002
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - wpl

Action Type: Other Regulatory Actions
Action Date: 7/1/2002
Received Issue Date: 7/1/2002
Action: Staff Letter
Doc Link:
Title Description Comments:

Quarterly Monitoring Reports request

Action Type: Other Regulatory Actions
Action Date: 1/23/1991
Received Issue Date: 1/23/1991
Action: Technical Correspondence / Assistance / Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6418700&temptable=ENFORCEMENT
Title Description Comments:

Letter - Tracking Free-Product Removal and Cleanup at UST Sites

Action Type: Leak Action
Action Date: 11/7/1986
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/22/1986
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/22/1986
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 10/30/2009
Received Issue Date:
Action: Monitoring Report - Semi-Annually
Doc Link:

Title Description Comments:

Requirement for Reduced Monitoring and Sampling and to Submit Technical Reports

Action Type: Response Requested - Workplans
Action Date: 1/31/2008
Received Issue Date:
Action: Public Participation Plan
Doc Link:
Title Description Comments:

Public Participation Plan

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/2287995696/T0601300298.PDF
Size : 149 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 4/12/2010*

Title: SB-1 (SB-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8800027430/T0601300298.PDF
Size : 93 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 4/12/2010*

Title: SB-2 (SB-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8599249601/T0601300298.PDF
Size : 95 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 4/12/2010*

Title: SB-3 (SB-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7218484342/T0601300298.PDF
Size : 97 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 4/12/2010*

Title: SB-4 (SB-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8185273170/T0601300298.PDF
Size : 100 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 4/12/2010*

Title: SB-5 (SB-5)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4194146692/T0601300298.PDF
Size : 108 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 4/12/2010*

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/9721326529/T0601300298.PDF
Size : 25 KB
Submitted By: GHD (CONTRACTOR)
Submitted: 3/15/2002

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 6/11/2015
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
Size :
Submitted By: MARTIN Y. MUSONGE (REGULATOR)
Submitted:
Title: RCRA NOTICE OF INTENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6248452

Document Type: Site Documents **Size :**
Document Date: 2/10/2015 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: LETTER - NOTICE **Submitted:**
Title: RCRA NOTICE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6244277

Document Type: Site Documents **Size :** 2,956 KB
Document Date: 1/14/2014* **Submitted By:** GHD (CONTRACTOR)
Type: WELL DESTRUCTION REPORT **Submitted:**
Title: 211212 WELL DESTRUCTION REPORT 01-14-2014
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4026696383/T0601300298.PDF

Document Type: Site Documents **Size :** 45 KB
Document Date: 5/29/2012* **Submitted By:** GHD (CONTRACTOR)
Type: CORRESPONDENCE **Submitted:**
Title: 90019 PROJECT MANAGEMENT CHANGE 05-15-2012
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2485259294/T0601300298.PDF

Document Type: Site Documents **Size :**
Document Date: 5/14/2012 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6121874

Document Type: Monitoring Reports **Size :** 3,175 KB
Document Date: 4/4/2012 **Submitted By:** GHD (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FIRST SEMI-ANNUAL 2012 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4693160951/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 4,617 KB
Document Date: 3/9/2012 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2012 1SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8441222429/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 3,880 KB
Document Date: 10/11/2011* **Submitted By:** GHD (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND SEMI-ANNUAL 2011 GROUNDWATER MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8091419994/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 5,394 KB
Document Date: 9/23/2011* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2011 2SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3343049049/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 5,394 KB
Document Date: 9/23/2011* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2011 2SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4842650651/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 3,718 KB
Document Date: 3/23/2011* **Submitted By:** GHD (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FIRST SEMI-ANNUAL 2011 GROUNDWATER MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1405552685/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 5,152 KB
Document Date: 3/9/2011* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2011 1SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2421641051/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 7,602 KB
Document Date: 10/27/2010* **Submitted By:** GHD (CONTRACTOR)

Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 21-1212-SECOND SEMI-ANNUAL 2010 GROUNDWATER MONITORING REPORT 2010-10-27
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3427850306/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 5,494 KB
Document Date: 9/22/2010 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2010 2SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3827729582/T0601300298.PDF

Document Type: Site Documents **Size :**
Document Date: 7/14/2010 **Submitted By:** (REGULATOR)
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR) **Submitted:**
Title: USTCF PRELIMINARY 5-YEAR REVIEW SUMMARY JUNE 2008
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6391344

Document Type: Monitoring Reports **Size :** 3,783 KB
Document Date: 4/28/2010* **Submitted By:** GHD (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 21-1212-FIRST SEMI-ANNUAL 2010 GROUNDWATER MONITORING REPORT-2010-4-28
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3698388636/T0601300298.PDF

Document Type: Site Documents **Size :** 6,187 KB
Document Date: 4/12/2010* **Submitted By:** GHD (CONTRACTOR)
Type: SITE INVESTIGATION **Submitted:**
Title: 21-1212-SSI-2010-4-12
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9819970667/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 1,983 KB
Document Date: 3/29/2010* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2010 1SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9350144743/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,332 KB
Document Date: 10/21/2009 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2ND SEMI-ANNUAL GROUNDWATER MONITORING REPORT '09 - 2ND SEMI-ANNUAL GROUNDWATER MONITORING REPORT '09 - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/2990277945/2nd%20Semi%2Dannual%20GW%20Mon%20Report%2009%2Epdf

Document Type: Monitoring Reports **Size :** 3,167 KB
Document Date: 10/19/2009 **Submitted By:** GHD (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 21-1212-SECOND SEMI-ANNUAL GROUNDWATER MONITORING REPORT-2009-10-19
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1973748624/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,904 KB
Document Date: 9/29/2009 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 2009 2SA EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3939614713/T0601300298.PDF

Document Type: Site Documents **Size :**
Document Date: 7/28/2009 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 MONITORING PROGRAM **Submitted:**
Title: REQUIREMENT FOR REDUCED MONITORING AND SAMPLING AND TO SUBMIT TECHNICAL REPORTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6024475

Document Type: Monitoring Reports **Size :** 4,419 KB
Document Date: 6/25/2009 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2009 2QTR EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6395666837/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 4,637 KB
Document Date: 3/23/2009* **Submitted By:** DEANNA HARDING (CONTRACTOR)

Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2009 1QTR EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7988598048/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 4,466 KB
Document Date: 1/14/2009 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2008 4QTR EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6029631674/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 4,531 KB
Document Date: 10/20/2008 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2008 3QTR EVENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7008650839/T0601300298.PDF

Document Type: Site Documents **Size :** 480 KB
Document Date: 9/12/2008* **Submitted By:** GHD (CONTRACTOR)
Type: WELL DESTRUCTION WORKPLAN **Submitted:**
Title: 211212WELL DESTRUCTION WP 9.12.08
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6668583750/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,845 KB
Document Date: 6/25/2008* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2008 2QTR REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2145003378/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,436 KB
Document Date: 4/8/2008* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2008 1QTR REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2405805826/T0601300298.PDF

Document Type: Site Documents **Size :** 121 KB
Document Date: 4/1/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: REQUIREMENT FOR PUBLIC NOTICE 12-26-2007
Title Link: https://geotracker.waterboards.ca.gov/site_documents/6553654313/07%2D0319PP%2012%2D26%2D07%2Epdf

Document Type: Monitoring Reports **Size :** 2,453 KB
Document Date: 1/22/2008* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2007 4QTR REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5051272332/T0601300298.PDF

Document Type: Site Documents **Size :** 36 KB
Document Date: 10/22/2007* **Submitted By:** GHD (CONTRACTOR)
Type: CORRESPONDENCE - OTHER **Submitted:**
Title: REQUEST FOR EXTENSTION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3917249381/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,388 KB
Document Date: 10/2/2007 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2007 3QTR M&S REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1391590714/T0601300298.PDF

Document Type: Site Documents **Size :** 143 KB
Document Date: 9/21/2007 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: LETTER **Submitted:**
Title: APPROVAL OF SITE ASSESSMENT WORKPLAN 8-10-1997
Title Link: https://geotracker.waterboards.ca.gov/site_documents/8506199479/07%2D0319ASAWPA08%2D10%2D07%2Epdf

Document Type: Monitoring Reports **Size :** 2,911 KB
Document Date: 7/25/2007* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2007 2QTR M&S REPORT

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9910923838/T0601300298.PDF

Document Type: Site Documents **Size :** 848 KB
Document Date: 5/8/2007* **Submitted By:** GHD (CONTRACTOR)
Type: WORKPLANS - INVESTIGATION WP **Submitted:**
Title: 21-1212 INVESTIGATION WP 5-2-07
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1851270914/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,517 KB
Document Date: 3/23/2007* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1ST QTR 2007 M&S REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2572189152/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,324 KB
Document Date: 12/20/2006* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 4Q06 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8259399235/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,443 KB
Document Date: 9/29/2006 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 3Q06 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5132695078/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,883 KB
Document Date: 6/29/2006 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2Q06 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7138950943/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,304 KB
Document Date: 4/3/2006* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1Q06 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3123350381/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,249 KB
Document Date: 1/17/2006 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 4Q05 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2783048331/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,633 KB
Document Date: 10/13/2005* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 3Q05 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1976651847/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,804 KB
Document Date: 7/15/2005* **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 2Q05 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3599607169/T0601300298.PDF

Document Type: Monitoring Reports **Size :** 2,245 KB
Document Date: 4/12/2005 **Submitted By:** DEANNA HARDING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1Q05 MONITORING AND SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1003636002/T0601300298.PDF

Document Type: Site Documents **Size :**
Document Date: 1/23/1991 **Submitted By:** MADELEINE LITTLE (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER **Submitted:**
Title: LETTER - TRACKING FREE-PRODUCT REMOVAL AND CLEANUP AT UST SITES
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300298&enforcement_id=6418700

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
38	1 of 1	N	0.29 / 1,515.00	201.54 / 5	FOUR MILE CLEANERS 1441 TARA HILLS DR PINOLE CA 94564	DELISTED HAZ

Siteid: 117620
Latitude: 37.995390
Longitude: -122.303690
Original Source: CHAZ
Record Date: 04-JAN-2018

39	1 of 1	NNE	0.30 / 1,596.39	237.61 / 41	BP #11153 (FORMER) 2298 APPIAN WY PINOLE CA 94564	LUST

Global ID: T0601300038
Status: COMPLETED - CASE CLOSED
Status Date: 5/14/2018
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: CONTRA COSTA
Latitude: 37.9956517230922
Longitude: -122.302825127647

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 07-0039
Local Case No: 39615
Begin Date: 7/31/1986
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Local Agency: CONTRA COSTA COUNTY
CUF Case: YES
Potential COC: Gasoline
How Discovered: Tank Closure
Stop Method:
Stop Description:
Case Worker: MYM
File Location: Regional Board
Potential Media of Concern: Other Groundwater (uses other than drinking water)
How Discovered Description:
Calwater Watershed Name: San Pablo - Pinole (206.60)
DWR GW Subbasin Name:
Disadvantaged Community:
Calenviroscreen Score: 46-50%
Site History:

The site is currently in use as an independently operated Pinole Express-branded service station with convenience store and truck rental facility. BP acquired the gasoline retail outlet from Mobil Oil Corporation in 1989. In 1994, BP transferred the gasoline retail outlet to the previous owner (Beacon-branded service station). The property was transferred to the current owner in May 2013. Three gasoline underground storage tanks (USTs) are located west of the dispenser islands. The site is located in a largely commercial area. A Texaco/Exxon gasoline retail outlet was previously located at the southwest corner of the intersection. The former Texaco/Exxon was a leaking UST case (GeoTracker Global ID No. T0601300298) and the site was closed in 2012. Based on verbal communication with Contra Costa Environmental Health Division (CCEH)'s Building Department on August 19, 2013, there are no current plans to redevelop the site and it is expected to remain commercial (i.e., an active gasoline service station). Properties immediately surrounding the site are commercial. The nearest residences are located about 400 feet east and crossgradient from the site.

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 5/14/2018
Action: Closure/No Further Action Letter

Action Type: RESPONSE
Date : 4/30/2018
Action: Well Destruction Report

Action Type: ENFORCEMENT
Date : 3/12/2018
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 2/14/2018
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 7/21/2017
Action: Notification - Public Notice of Case Closure

Action Type: ENFORCEMENT
Date : 5/18/2017
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: RESPONSE
Date : 1/29/2016
Action: Request for Closure - Regulator Responded

Action Type: ENFORCEMENT
Date : 11/19/2015
Action: Technical Correspondence / Assistance / Other

Action Type: RESPONSE
Date : 9/11/2015
Action: Other Workplan - Regulator Responded

Action Type: RESPONSE
Date : 10/31/2014
Action: Remedial Progress Report - Regulator Responded

Action Type: ENFORCEMENT
Date : 9/19/2014
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: ENFORCEMENT
Date : 8/13/2014
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 6/26/2014
Action: File Review - Closure

Action Type: RESPONSE
Date : 5/12/2014
Action: Other Workplan - Regulator Responded

Action Type: RESPONSE
Date : 2/14/2014
Action: Request for Closure - Regulator Responded

Action Type: RESPONSE
Date : 8/30/2013
Action: Request for Closure - Regulator Responded

Action Type: ENFORCEMENT
Date : 5/29/2013
Action: File Review - Closure

Action Type: ENFORCEMENT
Date : 1/31/2012
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 10/12/2010
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: RESPONSE
Date : 10/30/2009
Action: Monitoring Report - Semi-Annually

Action Type: ENFORCEMENT
Date : 7/22/2009
Action: 13267 Monitoring Program

Action Type: RESPONSE
Date : 4/30/2008
Action: Monitoring Report - Semi-Annually

Action Type: RESPONSE
Date : 1/15/2008
Action: Public Participation Plan

Action Type: ENFORCEMENT
Date : 12/10/2007
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 10/9/2007
Action: 13267 Monitoring Program

Action Type: RESPONSE
Date : 7/31/2007
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/30/2007
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/30/2006
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/30/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/31/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/31/2005
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/25/2004
Action: Monitoring Report - Semi-Annually

Action Type: RESPONSE
Date : 7/20/2004
Action: Correspondence

Action Type: RESPONSE
Date : 4/30/2004
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 4/29/2004
Action: Site Visit / Inspection / Sampling

Action Type: RESPONSE
Date : 3/25/2004
Action: Monitoring Report - Semi-Annually

Action Type: RESPONSE
Date : 10/30/2003
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/3/2003
Action: Monitoring Report - Semi-Annually

Action Type: RESPONSE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Date : 3/31/2003
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 3/28/2003
Action: Monitoring Report - Semi-Annually

Action Type: RESPONSE
Date : 2/25/2003
Action: Correspondence

Action Type: ENFORCEMENT
Date : 2/6/2003
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 2/6/2003
Action: Staff Letter

Action Type: RESPONSE
Date : 10/31/2002
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 9/4/2002
Action: Monitoring Report - Semi-Annually

Action Type: ENFORCEMENT
Date : 5/7/2002
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 5/6/2002
Action: Staff Letter

Action Type: RESPONSE
Date : 4/30/2002
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 12/21/2001
Action: Other Report / Document

Action Type: RESPONSE
Date : 12/21/2001
Action: Pilot Study/ Treatability Report

Action Type: ENFORCEMENT
Date : 11/2/2001
Action: File review

Action Type: RESPONSE
Date : 8/29/2001
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 6/13/2001
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 6/13/2001
Action: * Historical Enforcement

Action Type: ENFORCEMENT
Date : 4/25/2001
Action: 13267 Requirement

Action Type: RESPONSE
Date : 4/5/2000

Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 6/12/1996
Action: Other Report / Document

Action Type: RESPONSE
Date : 8/11/1995
Action: Other Report / Document

Action Type: RESPONSE
Date : 4/20/1988
Action: Monitoring Report - Quarterly

Action Type: Other
Date : 1/22/1987
Action: Leak Stopped

Action Type: Other
Date : 1/22/1987
Action: Leak Discovery

Action Type: Other
Date : 7/31/1986
Action: Leak Reported

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
City: MARTINEZ
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
Email: sloyd@hsd.co.contra-costa.ca.us
Phone No:

Contact Type: Regional Board Caseworker
Contact Name: MARTIN MUSONGE
City: OAKLAND
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
Email: martin.musonge@waterboards.ca.gov
Phone No:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 5/14/2018

Status: Open - Eligible for Closure
Status Date: 6/8/2017

Status: Open - Remediation
Status Date: 1/31/2012

Status: Open - Site Assessment
Status Date: 6/13/2001

Status: Open - Site Assessment
Status Date: 2/17/1987

Status: Open - Case Begin Date
Status Date: 7/31/1986

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: BP #11153 (FORMER)
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 2298 APPIAN WY
City: PINOLE

WDR File:		***Zip:***	94564
WDR Order:		***County:***	CONTRA COSTA
CUF Priority Assig:	D	***CUF Claim:***	5746
CUF Amount Paid:	$442,693		

File Location: REGIONAL BOARD
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0601300038
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 5/14/2018
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0601300038&tabname=regulatoryhistory
Potential Media of Concern: OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)
User Defined Beneficial Use:
DWR GW Sub Basin:
Calwater Watershed Name: San Pablo - Pinole (206.60)
Post Closure Site Management: NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL
NO GROUNDWATER EXTRACTION AT ANY DEPTH WITHOUT APPROVAL
NOTIFY PRIOR TO CHANGE IN LAND USE
NOTIFY PRIOR TO SUBSURFACE WORK
Future Land Use: COMMERCIAL
Cleanup Oversight Agencies: SAN FRANCISCO BAY RWQCB (REGION 2) (LEAD) - CASE #: 07-0039
CASEWORKER: MARTIN MUSONGE
CONTRA COSTA COUNTY - CASE #: 39615
CASEWORKER: SUE LOYD
Gndwater Monitoring Freque: # OF WELLS MONITORED - SEMI-ANNUALLY : 6
Designated Beneficial Use Desc: Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.
Site History:

The site is currently in use as an independently operated Pinole Express-branded service station with convenience store and truck rental facility. BP acquired the gasoline retail outlet from Mobil Oil Corporation in 1989. In 1994, BP transferred the gasoline retail outlet to the previous owner (Beacon-branded service station). The property was
transferred to the current owner in May 2013. Three gasoline underground storage tanks (USTs) are located west of the dispenser islands. The site is located in a largely commercial area. A Texaco/Exxon gasoline retail outlet was previously located at the southwest corner of the intersection. The former Texaco/Exxon was a leaking UST case (GeoTracker Global ID No. T0601300298) and the site was closed in 2012. Based on verbal communication with Contra Costa Environmental Health Division (CCEH)'s Building Department on August 19, 2013, there are no current plans to redevelop the site and it is expected to remain commercial (i.e., an active gasoline service station). Properties immediately surrounding the site are commercial. The nearest residences are located about 400 feet east and crossgradient from the site.

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 5/14/2018

Status: Open - Eligible for Closure
Date : 6/8/2017

Status: Open - Remediation
Date : 1/31/2012

Status: Open - Site Assessment
Date : 6/13/2001

Status: Open - Site Assessment
Date : 2/17/1987

Status: Open - Case Begin Date
Date : 7/31/1986

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 5/14/2018
Received Issue Date: 5/14/2018
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6357875&temptable=ENFORCEMENT

Title Description Comments:

Transmittal of case closure letter

Action Type: Response Requested - Reports
Action Date: *4/30/2018
Received Issue Date: 4/30/2018
Action: Well Destruction Report
Doc Link:
Title Description Comments:

A technical report documenting the proper decommissioning of the monitoring wells and that all investigation-derived wastes, were removed from the Site in accordance with regulatory requirements.

Action Type: Response Requested - Reports
Action Date: *4/30/2018
Received Issue Date: 4/30/2018
Action: Well Destruction Report
Doc Link:
Title Description Comments:

Action Type: Enforcement/Orders
Action Date: 3/12/2018
Received Issue Date: 3/12/2018
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6351162&temptable=ENFORCEMENT
Title Description Comments:

Approval of Time Extension Request

Action Type: Enforcement/Orders
Action Date: 2/14/2018
Received Issue Date: 2/14/2018
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6348736&temptable=ENFORCEMENT
Title Description Comments:

Requirement for a Technical Report of Monitoring Well Destruction and Waste Removal

Action Type: Notices
Action Date: 7/21/2017
Received Issue Date: 7/21/2017
Action: Notification - Public Notice of Case Closure
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6327270&temptable=ENFORCEMENT
Title Description Comments:

Notice of Intent to Issue a No Further Action Letter

Action Type: Other Regulatory Actions
Action Date: 5/18/2017
Received Issue Date: 5/18/2017
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6389193&temptable=ENFORCEMENT
Title Description Comments:

5746 2nd RSR Rationale Concur with closure May 2017

Action Type: Response Requested - Other
Action Date: 1/29/2016
Received Issue Date: 1/29/2016

Action: Request for Closure - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5881321
Title Description Comments:

Dual-Phase Extraction Event Summary Report and Request for Site Closure - R2 staff will be reviewing this request for closure by April 27, 2016, R2 staff will review and respond to the ADDENDUM TO DUAL-PHASE EXTRACTION EVENT SUMMARY REPORT AND REQUEST FOR SITE CLOSURE 110816 by February 15, 2017.

Action Type: Other Regulatory Actions
Action Date: 11/19/2015
Received Issue Date: 11/19/2015
Action: Technical Correspondence / Assistance / Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6267968&temptable=ENFORCEMENT
Title Description Comments:

Deny Low Threat Closure Request and Approve Dual Phase Extraction Workplan

Action Type: Response Requested - Workplans
Action Date: 9/11/2015
Received Issue Date: 9/11/2015
Action: Other Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5869655
Title Description Comments:

Dual Phase Extraction Work Plan - A "DENY LOW THREAT CLOSURE REQUEST AND APPROVE DUAL PHASE EXTRACTION WORKPLAN" letter was issued on 11/19/2015 by R2 staff.

Action Type: Response Requested - Reports
Action Date: *10/31/2014
Received Issue Date: 10/31/2014
Action: Remedial Progress Report - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5814163
Title Description Comments:

LNAPL Baildown Test Summary and Low-Threat Closure Evaluation Report was submitted on 10/31/2014 - Free product removal at the Site is ongoing. Closure will be re-evaluated when free product has been removed to the maximum extent practicable.

Action Type: Other Regulatory Actions
Action Date: 9/19/2014
Received Issue Date: 9/19/2014
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6388662&temptable=ENFORCEMENT
Title Description Comments:

Review Summary Report, September 2014

Action Type: Enforcement/Orders
Action Date: 8/13/2014
Received Issue Date: 8/13/2014
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6216970&temptable=ENFORCEMENT
Title Description Comments:

Approval of Workplan for Free Product Removal

Action Type: Other Regulatory Actions
Action Date: 6/26/2014
Received Issue Date: 6/26/2014
Action: File Review - Closure
Doc Link:
Title Description Comments:

LTC Closure Review

Action Type: Response Requested - Workplans
Action Date: 5/12/2014
Received Issue Date: 5/12/2014
Action: Other Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5813184
Title Description Comments:

2014 Baildown Test and Vacuum Extraction Test Work Plan - Workplan has been received and reviewed. This workplan will be approved by 8/15/2014.

Action Type: Response Requested - Other
Action Date: 2/14/2014
Received Issue Date: 2/14/2014
Action: Request for Closure - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5807341
Title Description Comments:

Low-Threat Closure Request Update - R2 staff rejects the site closure request based on the presence of free product in one of the wells., R2 staff will review the baildown test report and LTCP closure request.

Action Type: Response Requested - Other
Action Date: 8/30/2013
Received Issue Date: 8/30/2013
Action: Request for Closure - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5800863
Title Description Comments:

Conceptual Site Model and Request for Low-Threat Closure - An updated conceptual site model was received on 2/14/2014 and a notice of no further action could be issued by April 30, 2014., Request for closure is denied because free product has not been removed to the maximum extent practicable

Action Type: Other Regulatory Actions
Action Date: 5/29/2013
Received Issue Date: 5/29/2013
Action: File Review - Closure
Doc Link:
Title Description Comments:

LTC Clsoure Review

Action Type: Enforcement/Orders
Action Date: 1/31/2012
Received Issue Date: 1/31/2012
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6112318&temptable=ENFORCEMENT
Title Description Comments:

Approval of Corrective Action Plan and Requirement for a Technical Report

Action Type: Other Regulatory Actions
Action Date: 10/12/2010
Received Issue Date: 10/12/2010
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link:
Title Description Comments:

Case Closure letter and Site Closure Summary Form - 10.12.10

Action Type: Response Requested - Reports
Action Date: 10/30/2009
Received Issue Date: 10/30/2009
Action: Monitoring Report - Semi-Annually
Doc Link:

Title Description Comments:

Approval of Reduced Monitoring and Sampling and Requirement for Technical Reports

Action Type: Enforcement/Orders
Action Date: 7/22/2009
Received Issue Date: 7/22/2009
Action: 13267 Monitoring Program
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6022632&temptable=ENFORCEMENT
Title Description Comments:

Approval of Reduced Monitoring and Sampling and Requirement for Technical Reports

Action Type: Response Requested - Reports
Action Date: 4/30/2008
Received Issue Date: 4/30/2008
Action: Monitoring Report - Semi-Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5802530
Title Description Comments:

Semi-Annual Groundwater Monitoring Report, 1st Quarter 2008 - 4.30.08

Action Type: Response Requested - Workplans
Action Date: 1/15/2008
Received Issue Date: 3/15/2008
Action: Public Participation Plan
Doc Link:
Title Description Comments:

Public Participation Plan

Action Type: Enforcement/Orders
Action Date: 12/10/2007
Received Issue Date: 12/10/2007
Action: 13267 Requirement
Doc Link:
Title Description Comments:

Public Participation

Action Type: Enforcement/Orders
Action Date: 12/10/2007
Received Issue Date: 12/10/2007
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6350165&temptable=ENFORCEMENT
Title Description Comments:

Requirement for Public Notice

Action Type: Enforcement/Orders
Action Date: 10/9/2007
Received Issue Date: 10/9/2007
Action: 13267 Monitoring Program
Doc Link:
Title Description Comments:

QMs

Action Type: Response Requested - Reports
Action Date: 7/31/2007
Received Issue Date: 10/9/2007
Action: Monitoring Report - Quarterly

Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stQM07

Action Type: Response Requested - Reports
Action Date: 1/30/2007
Received Issue Date: 11/16/2006
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndSA06

Action Type: Response Requested - Reports
Action Date: 7/30/2006
Received Issue Date: 4/7/2006
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stSA06

Action Type: Response Requested - Reports
Action Date: 10/30/2005
Received Issue Date: 10/24/2005
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndSA05

Action Type: Response Requested - Reports
Action Date: 7/31/2005
Received Issue Date: 4/11/2005
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stSAMR05

Action Type: Response Requested - Reports
Action Date: 1/31/2005
Received Issue Date: 10/28/2004
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndSAMR04

Action Type: Response Requested - Reports
Action Date: 10/25/2004
Received Issue Date: 10/25/2004
Action: Monitoring Report - Semi-Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801327
Title Description Comments:

Second Semi-Annual 2004 Groundwater Monitoring Report

Action Type: Response Requested - Other
Action Date: 7/20/2004
Received Issue Date: 7/20/2004
Action: Correspondence

Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801803
Title Description Comments:

letter Re: 2nd Q 04 Status Report

Action Type: Response Requested - Reports
Action Date: 4/30/2004
Received Issue Date: 4/6/2004
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 1stSA-MR04

Action Type: Other Regulatory Actions
Action Date: 4/29/2004
Received Issue Date: 4/29/2004
Action: Site Visit / Inspection / Sampling
Doc Link:
Title Description Comments:

Site reconnaissance

Action Type: Response Requested - Reports
Action Date: 3/25/2004
Received Issue Date: 3/25/2004
Action: Monitoring Report - Semi-Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801777
Title Description Comments:

First Semi-Annual 04 Groundwater Monitoring Report - 3.25.04

Action Type: Response Requested - Reports
Action Date: 10/30/2003
Received Issue Date: 10/7/2003
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - 2ndSA-MR03

Action Type: Response Requested - Reports
Action Date: 10/3/2003
Received Issue Date: 10/3/2003
Action: Monitoring Report - Semi-Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5802711
Title Description Comments:

Semi-Annual Groundwater Monitoring Report - 3rd Q - 10.3.03

Action Type: Response Requested - Reports
Action Date: 3/31/2003
Received Issue Date: 3/12/2003
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - wpl

Action Type: Response Requested - Reports
Action Date: 3/28/2003
Received Issue Date: 3/28/2003
Action: Monitoring Report - Semi-Annually

Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801694
Title Description Comments:

First Semi-Annual 2003 Groundwater Monitoring Report - 3.28.03

Action Type: Response Requested - Other
Action Date: 2/25/2003
Received Issue Date: 2/25/2003
Action: Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5802498
Title Description Comments:

Response to WQ letter dated 2.6.03 - tank and GW data

Action Type: Other Regulatory Actions
Action Date: 2/6/2003
Received Issue Date: 2/6/2003
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5869213&temptable=ENFORCEMENT
Title Description Comments:

MNA parameter collection, TOC survey and tank tightness test resultsdue with GWMR on 31 mar 2003

Action Type: Enforcement/Orders
Action Date: 2/6/2003
Received Issue Date: 2/6/2003
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6350168&temptable=ENFORCEMENT
Title Description Comments:

Requirement to Collect Additional Data

Action Type: Response Requested - Reports
Action Date: 10/31/2002
Received Issue Date: 10/31/2002
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - wpl

Action Type: Response Requested - Reports
Action Date: 9/4/2002
Received Issue Date: 9/4/2002
Action: Monitoring Report - Semi-Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801912
Title Description Comments:

Semi-Annual 02 GWMR - 9.4.02

Action Type: Enforcement/Orders
Action Date: 5/7/2002
Received Issue Date: 5/7/2002
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6200398&temptable=ENFORCEMENT
Title Description Comments:

Requirement to Collect Natural Attenuation Parameters - 5.7.02

Action Type: Other Regulatory Actions
Action Date: 5/6/2002

Received Issue Date: 5/6/2002
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5966397&temptable=ENFORCEMENT
Title Description Comments:

Request to include MNA parameters in GW Monitoring and request for GW monitoring report (due Sept 30, 02) SA-MRs

Action Type: Response Requested - Reports
Action Date: 4/30/2002
Received Issue Date: 4/30/2002
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801804
Title Description Comments:

1st Quarter 2002 Groundwater Monitoring Report - 4.30.02

Action Type: Response Requested - Other
Action Date: 12/21/2001
Received Issue Date: 12/21/2001
Action: Other Report / Document
Doc Link:
Title Description Comments:

Dual Phase Extraction Pilot Test Report

Action Type: Response Requested - Reports
Action Date: 12/21/2001
Received Issue Date: 12/21/2001
Action: Pilot Study/ Treatability Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5801918
Title Description Comments:

Dual-Phase Extraction pilot Test Report - 12.21.01

Action Type: Other Regulatory Actions
Action Date: 11/2/2001
Received Issue Date: 11/2/2001
Action: File review
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6350166&temptable=ENFORCEMENT
Title Description Comments:

Approval of Remedial Action Plan

Action Type: Response Requested - Other
Action Date: 8/29/2001
Received Issue Date: 8/29/2001
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5792750
Title Description Comments:

Remedial Action Plan

Action Type: Enforcement/Orders
Action Date: 6/13/2001
Received Issue Date: 6/13/2001
Action: * Historical Enforcement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5859282&temptable=ENFORCEMENT
Title Description Comments:

Conditional Approval of Time Extension

Action Type: Enforcement/Orders
Action Date: 6/13/2001
Received Issue Date: 6/13/2001
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6200399&temptable=ENFORCEMENT
Title Description Comments:

Conditional Approval of Time Extension for RAP - 6.13.01

Action Type: Enforcement/Orders
Action Date: 4/25/2001
Received Issue Date: 4/25/2001
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6200401&temptable=ENFORCEMENT
Title Description Comments:

Request for Remedial Action Plan (RAP) - 4.25.01

Action Type: Enforcement/Orders
Action Date: 4/25/2001
Received Issue Date: 4/25/2001
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6136189&temptable=ENFORCEMENT
Title Description Comments:

Request for Remedial Action Plan

Action Type: Response Requested - Reports
Action Date: 4/5/2000
Received Issue Date: 4/5/2000
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5792745
Title Description Comments:

GW Soil Lab Reports

Action Type: Response Requested - Other
Action Date: 6/12/1996
Received Issue Date: 6/12/1996
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5792747
Title Description Comments:

Well Installation and SVE Feasibility Testing

Action Type: Response Requested - Other
Action Date: 8/11/1995
Received Issue Date: 8/11/1995
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5792748
Title Description Comments:

Scope of Work for SVE

Action Type: Response Requested - Reports
Action Date: 4/20/1988
Received Issue Date: 4/20/1988
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300038&doc_id=5792746
Title Description Comments:

Action Type: Leak Action
Action Date: 1/22/1987
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 1/22/1987
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 7/31/1986
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: SWRCB Case Review
Action Date: 10/4/2017
Received Issue Date:
Action: Closure Denial Review
Doc Link:
Title Description Comments:

Noticed for Public Comment

Action Type: SWRCB Case Review
Action Date: 9/15/2016
Received Issue Date:
Action: Closure Denial Review
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5807341&temptable=CLOSURE_DENIAL_REVIEW
Title Description Comments:

Agree with Closure Denial

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/8590696036/T0601300038.pdf
Size : 338 KB
Submitted By: KHALED B. RAHMAN (AUTH_RP)
Submitted: 5/7/2002

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents ***Size :***
Document Date: 5/14/2018 ***Submitted By:*** MARTIN Y. MUSONGE (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER ***Submitted:***
Title: TRANSMITTAL OF CASE CLOSURE LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6357875

Document Type: Site Documents ***Size :*** 3,591 KB
Document Date: 4/30/2018 ***Submitted By:*** ARCADIS (AUTH_RP)
Type: WELL DESTRUCTION REPORT ***Submitted:***
Title: CA-11153 180430 BP WELL DESTRUCTION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4277481317/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 3/12/2018 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: APPROVAL OF TIME EXTENSION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6351162

Document Type: Site Documents **Size :**
Document Date: 2/14/2018 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT FOR A TECHNICAL REPORT OF MONITORING WELL DESTRUCTION AND WASTE REMOVAL
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6348736

Document Type: Site Documents **Size :**
Document Date: 7/21/2017 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: NOTIFICATION - PUBLIC NOTICE OF CASE CLOSURE **Submitted:**
Title: NOTICE OF INTENT TO ISSUE A NO FURTHER ACTION LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6327270

Document Type: Site Documents **Size :**
Document Date: 5/18/2017 **Submitted By:** (REGULATOR)
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR) **Submitted:**
Title: 5746 2ND RSR RATIONALE CONCUR WITH CLOSURE MAY 2017
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6389193

Document Type: Monitoring Reports **Size :** 3,358 KB
Document Date: 5/10/2017* **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 4Q16 AND 1Q17 SEMI-ANNUAL GMR_05102017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8971252679/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 5,079 KB
Document Date: 11/16/2016* **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND AND THIRD QUARTER 2016 SEMI-ANNUAL GMR 111616
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1768576264/T0601300038.PDF

Document Type: Site Documents **Size :** 3,477 KB
Document Date: 11/8/2016 **Submitted By:** ARCADIS (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: ADDENDUM TO DUAL-PHASE EXTRACTION EVENT SUMMARY REPORT AND REQUEST FOR SITE CLOSURE 110816
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5750642776/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,087 KB
Document Date: 4/13/2016* **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FOURTH QUARTER 2015 AND FIRST QUARTER 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3256994664/T0601300038.PDF

Document Type: Site Documents **Size :** 8,264 KB
Document Date: 1/29/2016 **Submitted By:** ARCADIS (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: DUAL-PHASE EXTRACTION EVENT SUMMARY REPORT AND REQUEST FOR SITE CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5876436233/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,207 KB
Document Date: 12/1/2015* **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND QUARTER AND THIRD QUARTER 2015 SEMI-ANNUAL GROUNDWATER MONITORING REPORT 120115
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9334108352/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 11/19/2015 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)

Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER **Submitted:**
Title: DENY LOW THREAT CLOSURE REQUEST AND APPROVE DUAL PHASE EXTRACTION WORKPLAN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6267968

Document Type: Site Documents **Size :** 737 KB
Document Date: 9/11/2015 **Submitted By:** ARCADIS (AUTH_RP)
Type: OTHER WORKPLAN **Submitted:**
Title: DUAL PHASE EXTRACTION WORK PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8578513443/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,317 KB
Document Date: 4/28/2015 **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FOURTH QUARTER 2014 AND FIRST QUARTER 2015 SEMI-ANNUAL GROUNDWATER MONITORING REPORT 042815
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3855150341/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 10/31/2014 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: LNAPL BAILDOWN TEST SUMMARY AND LOW-THREAT CLOSURE EVALUATION REPORT WAS SUBMITTED ON 10/31/2014 - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5814163

Document Type: Site Documents **Size :** 1,419 KB
Document Date: 10/31/2014 **Submitted By:** ARCADIS (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: LNAPL BAILDOWN TEST SUMMARY AND LOW-THREAT CLOSURE EVALUATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9197043716/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 3,913 KB
Document Date: 10/28/2014* **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND AND THIRD QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5955939590/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 9/19/2014 **Submitted By:** KIRK T. LARSON (REGULATOR)
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR) **Submitted:**
Title: REVIEW SUMMARY REPORT, SEPTEMBER 2014
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6388662

Document Type: Site Documents **Size :**
Document Date: 8/13/2014 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: APPROVAL OF WORKPLAN FOR FREE PRODUCT REMOVAL
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6216970

Document Type: Site Documents **Size :** 570 KB
Document Date: 5/12/2014 **Submitted By:** ARCADIS (AUTH_RP)
Type: OTHER WORKPLAN **Submitted:**
Title: 2014 BAILDOWN TEST AND VACUUM EXTRACTION TEST WORK PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1529410660/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 4,837 KB
Document Date: 4/30/2014 **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FOURTH QUARTER 2013 AND FIRST QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1580590426/T0601300038.PDF

Document Type: Site Documents **Size :** 2,213 KB
Document Date: 2/14/2014 **Submitted By:** ARCADIS (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: LOW-THREAT CLOSURE REQUEST UPDATE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9480531215/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 5,372 KB
Document Date: 10/30/2013 **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND AND THIRD QUARTER 2013 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3842359423/T0601300038.PDF

Document Type: Site Documents **Size :** 2,912 KB
Document Date: 8/30/2013 **Submitted By:** ARCADIS (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: CONCEPTUAL SITE MODEL AND REQUEST FOR LOW-THREAT CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7503953456/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 8/30/2013 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: CONCEPTUAL SITE MODEL AND REQUEST FOR LOW-THREAT CLOSURE - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5800863

Document Type: Site Documents **Size :** 9,658 KB
Document Date: 5/31/2013* **Submitted By:** ARCADIS (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: DPE AND VTE SUMMARY LETTER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5055662035/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 6,358 KB
Document Date: 4/30/2013 **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FOURTH QUARTER 2012 AND FIRST QUARTER 2013 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8719196379/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 4,648 KB
Document Date: 10/30/2012* **Submitted By:** ARCADIS (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2012-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2580293178/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,764 KB
Document Date: 4/13/2012* **Submitted By:** BROADBENT & ASSOCIATES, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: CA 11153 20120413 ARCADIS - 1Q12 SAMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6081908464/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 1/31/2012 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: APPROVAL OF CORRECTIVE ACTION PLAN AND REQUIREMENT FOR A TECHNICAL REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6112318

Document Type: Monitoring Reports **Size :** 2,895 KB
Document Date: 10/31/2011* **Submitted By:** BROADBENT & ASSOCIATES, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 3Q11 SAMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7867353081/T0601300038.PDF

Document Type: Site Documents **Size :** 9,603 KB
Document Date: 9/29/2011 **Submitted By:** ARCADIS (AUTH_RP)
Type: CAP/RAP - FEASIBILITY STUDY REPORT **Submitted:**
Title: BP 11153 FEASIBILITY STUDY-CORRECTIVE ACTION PLAN_FINAL.PFD
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2004032909/T0601300038.PDF

Document Type: Site Documents **Size :** 9,609 KB
Document Date: 6/6/2011* **Submitted By:** ARCADIS (AUTH_RP)
Type: CORRECTIVE ACTION PLAN / REMEDIAL ACTION PLAN **Submitted:**
Title: FEASIBILITY STUDY AND CORRECTIVE ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1958909034/T0601300038.PDF

Document Type: Site Documents **Size :** 9,603 KB
Document Date: 6/3/2011* **Submitted By:** ARCADIS (AUTH_RP)
Type: CAP/RAP - FEASIBILITY STUDY REPORT **Submitted:**
Title: FEASIBILITY STUDY AND CORRECTIVE ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8798827409/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,279 KB
Document Date: 4/27/2011* **Submitted By:** BROADBENT & ASSOCIATES, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 1Q11 SAMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7725250184/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,107 KB
Document Date: 10/27/2010* **Submitted By:** BROADBENT & ASSOCIATES, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 3Q10 SAMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2728158533/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 6,046 KB
Document Date: 4/30/2010* **Submitted By:** BROADBENT & ASSOCIATES, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: 1Q10 SAMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2159829556/T0601300038.PDF

Document Type: Site Documents **Size :** 1,337 KB
Document Date: 1/25/2010* **Submitted By:** BROADBENT & ASSOCIATES, INC. (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: 4Q09 QSR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7800408899/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 3,140 KB
Document Date: 9/23/2009 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL MONITORING REPORT, 2009-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5276238858/T0601300038.PDF

Document Type: Site Documents **Size :**
Document Date: 7/22/2009 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 MONITORING PROGRAM **Submitted:**
Title: APPROVAL OF REDUCED MONITORING AND SAMPLING AND REQUIREMENT FOR TECHNICAL REPORTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6022632

Document Type: Monitoring Reports **Size :** 4,451 KB
Document Date: 4/17/2009 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2009-Q1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4113045811/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,735 KB
Document Date: 11/7/2008* **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2008-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9347382068/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,798 KB
Document Date: 5/2/2008* **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2008-Q1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2556869983/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 20,546 KB
Document Date: 4/30/2008 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL GROUNDWATER MONITORING REPORT, 1ST QUARTER 2008 - 4.30.08 - 1ST Q 08 GWMR -

4.30.08
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/9355560123/07%2D0039%201stQ%2008%20GWMR%20%2D%204%2E30%2E08%2Epdf

Document Type: Site Documents **Size :** 127 KB
Document Date: 4/1/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: PUBLIC PARTICIPATION 12-10-2007
Title Link: https://geotracker.waterboards.ca.gov/site_documents/1876225113/07%2D0039PP12%2D10%2D07%2Epdf

Document Type: Site Documents **Size :** 48 KB
Document Date: 1/24/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: CONDITIONAL APPROVAL OF TIME EXTENSION 6-13-2001
Title Link: https://geotracker.waterboards.ca.gov/site_documents/8400161564/4Case%2Epdf

Document Type: Site Documents **Size :** 63 KB
Document Date: 1/24/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: APPROVAL OF REMEDIAL ACTION PLAN 11-2-2001
Title Link: https://geotracker.waterboards.ca.gov/site_documents/8312428116/1Case%2Epdf

Document Type: Site Documents **Size :** 76 KB
Document Date: 1/24/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: REQUIREMENT TO COLLECT NATURAL ATTENUATION PARAMETERS 5-7-2002
Title Link: https://geotracker.waterboards.ca.gov/site_documents/6337772965/2Case%2Epdf

Document Type: Site Documents **Size :** 89 KB
Document Date: 1/24/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: REQUIREMENT TO COLLECT ADDITIONAL DATA 2-6-2003
Title Link: https://geotracker.waterboards.ca.gov/site_documents/7284225285/5Case%2Epdf

Document Type: Site Documents **Size :** 48 KB
Document Date: 1/24/2008 **Submitted By:** (REGULATOR)
Type: LETTER **Submitted:**
Title: REQUEST FOR REMEDIAL ACTION PLAN 5-25-2001
Title Link: https://geotracker.waterboards.ca.gov/site_documents/8667835831/3Case%2Epdf

Document Type: Site Documents **Size :**
Document Date: 12/10/2007 **Submitted By:** JOHN SEAL (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT FOR PUBLIC NOTICE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6350165

Document Type: Monitoring Reports **Size :** 4,515 KB
Document Date: 11/28/2007* **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2007-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9993240833/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 3,800 KB
Document Date: 4/2/2007* **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2007-Q1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1010757267/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,537 KB
Document Date: 11/15/2006 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2006-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2197752237/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,906 KB
Document Date: 4/6/2006 **Submitted By:** SUZANNE NASE (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1Q06 QMR - BP SITE 11153.PDF
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2999067008/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,494 KB
Document Date: 10/21/2005* **Submitted By:** SUZANNE NASE (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUAL **Submitted:**
Title: SECOND SEMI-ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4671284317/T0601300038.PDF

Document Type: Site Documents **Size :** 47 KB
Document Date: 8/1/2005* **Submitted By:** SUZANNE NASE (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: 2Q 2005 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6129012882/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 2,492 KB
Document Date: 4/7/2005* **Submitted By:** SUZANNE NASE (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1Q 2005 QMR SITE 11153
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8904905021/T0601300038.PDF

Document Type: Monitoring Reports **Size :** 25,013 KB
Document Date: 10/25/2004 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND SEMI-ANNUAL 2004 GROUNDWATER MONITORING REPORT - 2ND SEMI-ANNUAL GW MONITORING REPORT, URS FOR FORMER BP SITE - 10.25.04
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/3511717081/07%2D0039%202nd%20Semi%2DAnnual%2004%20GWMR%20%2D%2010%2E28%2E04%2Epdf

Document Type: Site Documents **Size :**
Document Date: 7/20/2004 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: CORRESPONDENCE **Submitted:**
Title: LETTER RE: 2ND Q 04 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5801803

Document Type: Monitoring Reports **Size :** 20,514 KB
Document Date: 3/25/2004 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FIRST SEMI-ANNUAL 04 GROUNDWATER MONITORING REPORT - 3.25.04 - 1ST SAGWMR 04 - REVIEWED 4.6.04
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/6414167642/07%2D0039%201st%20SA%2004%20GWMR%20%2D%203%2E25%2E04%2Epdf

Document Type: Monitoring Reports **Size :** 4,608 KB
Document Date: 10/3/2003 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL GROUNDWATER MONITORING REPORT - 3RD Q - 10.3.03 - FORMER BP SITE SEMI-ANNUAL GWMR - 10.3.03
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/3606336295/07%2D0039%203Q%2003%20SAGWMR%20%2D%20%28BP%29%20%2D%2010%2E3%2E03%2Epdf

Document Type: Monitoring Reports **Size :** 22,507 KB
Document Date: 3/28/2003 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FIRST SEMI-ANNUAL 2003 GROUNDWATER MONITORING REPORT - 3.28.03 - 1ST SAGWMR - REVIEWED 4.1.03
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7464556634/1st%20Semi%2DAnnual%20GWMR%2003%20%2D%203%2E28%2E03%2Epdf

Document Type: Site Documents **Size :**
Document Date: 2/25/2003 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: CORRESPONDENCE **Submitted:**
Title: RESPONSE TO WQ LETTER DATED 2.6.03 - TANK AND GW DATA
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5802498

Document Type: Site Documents **Size :**
Document Date: 2/6/2003 **Submitted By:** JOHN SEAL (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT TO COLLECT ADDITIONAL DATA
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6350168

Document Type: Site Documents **Size :**
Document Date: 2/6/2003 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: MNA PARAMETER COLLECTION, TOC SURVEY AND TANK TIGHTNESS TEST RESULTSDUE WITH GWMR ON 31 MAR 2003
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5869213

Document Type: Monitoring Reports **Size :** 24,234 KB
Document Date: 9/4/2002 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL 02 GWMR - 9.4.02 - SEMI-ANNUAL 2002 GROUNDWATER MONITORING REPORT - REVUEWED 9.4.02
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/8244063436/07%2D0039%20Semi%2DAnnual%2002%20GWMR%20%2D%209%2E4%2E02%2Epdf

Document Type: Site Documents **Size :**
Document Date: 5/7/2002 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT TO COLLECT NATURAL ATTENUATION PARAMETERS - 5.7.02
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6200398

Document Type: Site Documents **Size :**
Document Date: 5/6/2002 **Submitted By:** (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: REQUEST TO INCLUDE MNA PARAMETERS IN GW MONITORING AND REQUEST FOR GW MONITORING REPORT (DUE SEPT 30, 02) SA-MRS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5966397

Document Type: Monitoring Reports **Size :** 26,924 KB
Document Date: 4/30/2002 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1ST QUARTER 2002 GROUNDWATER MONITORING REPORT - 4.30.02 - 1ST Q 02 GWMR - 4.30.02
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7739942789/1st%20Q%2002%20GWMR%20%2D%204%2E30%2E02%2Epdf

Document Type: Site Documents **Size :**
Document Date: 12/21/2001 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: PILOT STUDY/ TREATABILITY REPORT **Submitted:**
Title: DUAL-PHASE EXTRACTION PILOT TEST REPORT - 12.21.01
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5801918

Document Type: Site Documents **Size :**
Document Date: 11/2/2001 **Submitted By:** JOHN SEAL (REGULATOR)
Type: FILE REVIEW **Submitted:**
Title: APPROVAL OF REMEDIAL ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6350166

Document Type: Site Documents **Size :**
Document Date: 8/29/2001 **Submitted By:** (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: REMEDIAL ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5792750

Document Type: Site Documents **Size :**
Document Date: 6/13/2001 **Submitted By:** MICHAEL WRIGLEY (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: CONDITIONAL APPROVAL OF TIME EXTENSION FOR RAP - 6.13.01
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6200399

Document Type: Site Documents **Size :**
Document Date: 6/13/2001 **Submitted By:** (REGULATOR)
Type: * HISTORICAL ENFORCEMENT **Submitted:**
Title: CONDITIONAL APPROVAL OF TIME EXTENSION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=5859282

Document Type: Site Documents **Size :**
Document Date: 4/25/2001 **Submitted By:** (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUEST FOR REMEDIAL ACTION PLAN

Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6136189

Document Type: Site Documents
Size :
Document Date: 4/25/2001
Submitted By: MICHAEL WRIGLEY (REGULATOR)
Type: 13267 REQUIREMENT
Submitted:
Title: REQUEST FOR REMEDIAL ACTION PLAN (RAP) - 4.25.01
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&enforcement_id=6200401

Document Type: Site Documents
Size :
Document Date: 4/5/2000
Submitted By: (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT
Submitted:
Title: GW SOIL LAB REPORTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5792745

Document Type: Site Documents
Size :
Document Date: 6/12/1996
Submitted By: (REGULATOR)
Type: OTHER REPORT / DOCUMENT
Submitted:
Title: WELL INSTALLATION AND SVE FEASIBILITY TESTING
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5792747

Document Type: Site Documents
Size :
Document Date: 8/11/1995
Submitted By: (REGULATOR)
Type: OTHER REPORT / DOCUMENT
Submitted:
Title: SCOPE OF WORK FOR SVE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300038&document_id=5792748

Document Type: Monitoring Reports
Size : 15,061 KB
Document Date: 4/20/1988
Submitted By: (REGULATOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: QGWMWR -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/2420362710/4%2D20%2D1988%20QMWR%2Epdf

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40	1 of 1	N	0.30 / 1,601.37	197.54 / 1	RENT A RACK 1271 TARA HILLS DR PINOLE CA 94564	LUST

Global ID: T0601300234
County: CONTRA COSTA
Status: COMPLETED - CASE CLOSED
Latitude: 37.9968
Status Date: 4/8/2014
Longitude: -122.306
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 07-0253
Potential COC: Gasoline
Local Case No: 70738
How Discovered: Tank Closure
Begin Date: 11/7/1986
Stop Method:
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Stop Description:
Local Agency: CONTRA COSTA COUNTY
Case Worker: MYM
CUF Case: NO
File Location:
Potential Media of Concern: Other Groundwater (uses other than drinking water), Soil
How Discovered Description:
Calwater Watershed Name: San Pablo - Pinole (206.60)
DWR GW Subbasin Name:
Disadvantaged Community:
Calenviroscreen Score: 26-30%
Site History:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 4/8/2014

Action: Closure/No Further Action Letter

Action Type: ENFORCEMENT
Date : 2/19/2014
Action: Site Visit / Inspection / Sampling

Action Type: ENFORCEMENT
Date : 5/30/2013
Action: File Review - Closure

Action Type: ENFORCEMENT
Date : 1/13/2009
Action: Staff Letter

Action Type: RESPONSE
Date : 1/9/2001
Action: Other Report / Document

Action Type: RESPONSE
Date : 8/9/1999
Action: Unauthorized Release Form

Action Type: ENFORCEMENT
Date : 6/29/1999
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 3/25/1999
Action: 13267 Requirement

Action Type: RESPONSE
Date : 2/24/1997
Action: Other Report / Document

Action Type: RESPONSE
Date : 9/17/1990
Action: Other Report / Document

Action Type: RESPONSE
Date : 4/7/1987
Action: Soil and Water Investigation Report

Action Type: Other
Date : 3/31/1987
Action: Leak Reported

Action Type: RESPONSE
Date : 3/30/1987
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 3/8/1987
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 2/24/1987
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 2/5/1987
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 1/31/1987
Action: Other Report / Document

Action Type: RESPONSE
Date : 1/26/1987
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 1/15/1987
Action: Soil and Water Investigation Report

Action Type: RESPONSE
Date : 11/17/1986
Action: Tank Removal Report / UST Sampling Report

Action Type: Other
Date : 11/7/1986
Action: Leak Stopped

Action Type: Other
Date : 11/7/1986
Action: Leak Discovery

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: MARTIN MUSONGE
City: OAKLAND
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
Email: martin.musonge@waterboards.ca.gov
Phone No:

Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
City: MARTINEZ
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
Email: sloyd@hsd.co.contra-costa.ca.us
Phone No:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 4/8/2014

Status: Open - Site Assessment
Status Date: 3/25/1997

Status: Open - Case Begin Date
Status Date: 11/7/1986

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: RENT A RACK
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
File Location:
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0601300234
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 4/8/2014
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0601300234&tabname=regulatoryhistory
Potential Media of Concern: OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER), SOIL
User Defined Beneficial Use:
DWR GW Sub Basin:
Calwater Watershed Name: San Pablo - Pinole (206.60)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: SAN FRANCISCO BAY RWQCB (REGION 2) (LEAD) - CASE #: 07-0253
CASEWORKER: MARTIN MUSONGE
CONTRA COSTA COUNTY - CASE #: 70738

Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 1271 TARA HILLS DR
City: PINOLE
Zip: 94564
County: CONTRA COSTA
CUF Claim:

CASEWORKER: SUE LOYD

Gndwater Monitoring Freque:

Designated Beneficial Use Desc: Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.

Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 4/8/2014

Status: Open - Site Assessment
Date : 3/25/1997

Status: Open - Case Begin Date
Date : 11/7/1986

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 4/8/2014
Received Issue Date: 4/8/2014
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=6267211&temptable=ENFORCEMENT
Title Description Comments:

Transmittal of Closure Letter

Action Type: Other Regulatory Actions
Action Date: 2/19/2014
Received Issue Date: 2/19/2014
Action: Site Visit / Inspection / Sampling
Doc Link:
Title Description Comments:

Site Inspection Inspected the Rent-a-Rack site to verify location of soil borings installed as part of a phase I investigation which contains data necessary to move the case to closure. The discharger handed me a hard copy of the Phase I report.

Action Type: Other Regulatory Actions
Action Date: 5/30/2013
Received Issue Date: 5/30/2013
Action: File Review - Closure
Doc Link:
Title Description Comments:

LTC Closure Review

Action Type: Other Regulatory Actions
Action Date: 1/13/2009
Received Issue Date: 1/13/2009
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=5999512&temptable=ENFORCEMENT
Title Description Comments:

Requirement for Electronic Submittal of Information

Action Type: Response Requested - Other
Action Date: 1/9/2001
Received Issue Date: 1/9/2001

Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865852
Title Description Comments:

Site Summary Form - January 9, 2001

Action Type: Response Requested - Other
Action Date: 8/9/1999
Received Issue Date: 8/9/1999
Action: Unauthorized Release Form
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865846
Title Description Comments:

UST Unauthorized Release (Leak) and Contamination Site Report and Field Sampling Report

Action Type: Enforcement/Orders
Action Date: 6/29/1999
Received Issue Date: 6/29/1999
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=6266356&temptable=ENFORCEMENT
Title Description Comments:

Request for Initial Investigation - June 29, 1999

Action Type: Enforcement/Orders
Action Date: 3/25/1999
Received Issue Date: 3/25/1999
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=6266358&temptable=ENFORCEMENT
Title Description Comments:

Request for Additional Information

Action Type: Response Requested - Other
Action Date: 2/24/1997
Received Issue Date: 2/24/1997
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865863
Title Description Comments:

Chronology of Events

Action Type: Response Requested - Other
Action Date: 9/17/1990
Received Issue Date: 9/17/1990
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865861
Title Description Comments:

Fuel Leak Case Form

Action Type: Response Requested - Reports
Action Date: 4/7/1987
Received Issue Date: 4/7/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865854
Title Description Comments:

Sampling Report - Soil was Sampled to Establish the Remaining Levels of Fuel Hydrocarbons - April 7, 1987

Action Type: Response Requested - Reports
Action Date: 3/30/1987

Received Issue Date: 3/30/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865853
Title Description Comments:

Sampling Report - Soil was Sampled to Establish the Remaining Levels of Fuel Hydrocarbons - March 30, 1987

Action Type: Response Requested - Reports
Action Date: 3/8/1987
Received Issue Date: 3/8/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865855
Title Description Comments:

Sampling Report - Confirming Samples Following Additional Excavation - March 8, 1987

Action Type: Response Requested - Reports
Action Date: 2/24/1987
Received Issue Date: 2/24/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865858
Title Description Comments:

Sampling Report - Confirming Samples Following Additional Excavation - February 24, 1987

Action Type: Response Requested - Reports
Action Date: 2/5/1987
Received Issue Date: 2/5/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865859
Title Description Comments:

Sampling Report - Confirming Samples Following Additional Excavation - February 5, 1987

Action Type: Response Requested - Other
Action Date: 1/31/1987
Received Issue Date: 1/31/1987
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865849
Title Description Comments:

Underground Hazardous Substance Storage Tank Removal Permit and Information Form

Action Type: Response Requested - Reports
Action Date: 1/26/1987
Received Issue Date: 1/26/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865860
Title Description Comments:

Sample Analysis - January 26, 1987

Action Type: Response Requested - Reports
Action Date: 1/15/1987
Received Issue Date: 1/15/1987
Action: Soil and Water Investigation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865857
Title Description Comments:

Sampling Report - Confirming Samples Following Additional Excavation - January 15, 1987

Action Type: Response Requested - Reports
Action Date: 11/17/1986

Received Issue Date: 11/17/1986
Action: Tank Removal Report / UST Sampling Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0601300234&doc_id=5865847
Title Description Comments:

UST Removal Sampling Report - November 17, 1986

Action Type: Leak Action
Action Date: 3/31/1987
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 11/7/1986
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 11/7/1986
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents **Size :** 3,181 KB
Document Date: 12/27/2014 **Submitted By:** GLENN YOUNG (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: REQUEST FOR CASE CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8342444717/T0601300234.PDF

Document Type: Site Documents **Size :**
Document Date: 4/8/2014 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER **Submitted:**
Title: TRANSMITTAL OF CLOSURE LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=6267211

Document Type: Site Documents **Size :**
Document Date: 1/13/2009 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: REQUIREMENT FOR ELECTRONIC SUBMITTAL OF INFORMATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=5999512

Document Type: Site Documents **Size :**
Document Date: 1/9/2001 **Submitted By:** BONNIE LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: SITE SUMMARY FORM - JANUARY 9, 2001
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865852

Document Type: Site Documents **Size :**
Document Date: 8/9/1999 **Submitted By:** BONNIE LAM (REGULATOR)
Type: UNAUTHORIZED RELEASE FORM **Submitted:**
Title: UST UNAUTHORIZED RELEASE (LEAK) AND CONTAMINATION SITE REPORT AND FIELD SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865846

Document Type: Site Documents **Size :**
Document Date: 6/29/1999 **Submitted By:** BONNIE LAM (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUEST FOR INITIAL INVESTIGATION - JUNE 29, 1999

Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=6266356

Document Type: Site Documents **Size :**
Document Date: 3/25/1999 **Submitted By:** BONNIE LAM (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUEST FOR ADDITIONAL INFORMATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&enforcement_id=6266358

Document Type: Site Documents **Size :**
Document Date: 2/24/1997 **Submitted By:** BONNIE LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: CHRONOLOGY OF EVENTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865863

Document Type: Site Documents **Size :**
Document Date: 9/17/1990 **Submitted By:** BONNIE LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: FUEL LEAK CASE FORM
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865861

Document Type: Site Documents **Size :**
Document Date: 4/7/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**
Title: SAMPLING REPORT - SOIL WAS SAMPLED TO ESTABLISH THE REMAINING LEVELS OF FUEL HYDROCARBONS - APRIL 7, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865854

Document Type: Site Documents **Size :**
Document Date: 3/30/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**
Title: SAMPLING REPORT - SOIL WAS SAMPLED TO ESTABLISH THE REMAINING LEVELS OF FUEL HYDROCARBONS - MARCH 30, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865853

Document Type: Site Documents **Size :**
Document Date: 3/8/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**
Title: SAMPLING REPORT - CONFIRMING SAMPLES FOLLOWING ADDITIONAL EXCAVATION - MARCH 8, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865855

Document Type: Site Documents **Size :**
Document Date: 2/24/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**
Title: SAMPLING REPORT - CONFIRMING SAMPLES FOLLOWING ADDITIONAL EXCAVATION - FEBRUARY 24, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865858

Document Type: Site Documents **Size :**
Document Date: 2/5/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**
Title: SAMPLING REPORT - CONFIRMING SAMPLES FOLLOWING ADDITIONAL EXCAVATION - FEBRUARY 5, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865859

Document Type: Site Documents **Size :**
Document Date: 1/31/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: UNDERGROUND HAZARDOUS SUBSTANCE STORAGE TANK REMOVAL PERMIT AND INFORMATION FORM
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865849

Document Type: Site Documents **Size :**
Document Date: 1/26/1987 **Submitted By:** BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT **Submitted:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Title: SAMPLE ANALYSIS - JANUARY 26, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865860

Document Type: Site Documents
Size :
Document Date: 1/15/1987
Submitted By: BONNIE LAM (REGULATOR)
Type: SOIL AND WATER INVESTIGATION REPORT
Submitted:

Title: SAMPLING REPORT - CONFIRMING SAMPLES FOLLOWING ADDITIONAL EXCAVATION - JANUARY 15, 1987
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865857

Document Type: Site Documents
Size :
Document Date: 11/17/1986
Submitted By: BONNIE LAM (REGULATOR)
Type: TANK REMOVAL REPORT / UST SAMPLING REPORT
Submitted:

Title: UST REMOVAL SAMPLING REPORT - NOVEMBER 17, 1986
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0601300234&document_id=5865847

41	1 of 2	N	0.31 / 1,617.63	196.29 / 0	Wheel Works #240711 1251 TARA HILLS DR PINOLE CA 94564	DELISTED HAZ

Siteid: 85822
Latitude: 37.995087
Longitude: -122.305400
Original Source: CHAZ
Record Date: 04-JAN-2018

41	2 of 2	N	0.31 / 1,617.63	196.29 / 0	O'REILLY AUTO PARTS #3495 1251 TARA HILLS DR PINOLE CA 94564	C&D DEBRIS RECY

County: CONTRA COSTA

Activity Type: USED OIL COLLECTION
Phone No:

42	1 of 1	N	0.32 / 1,671.17	191.45 / -5	Pinole Family Dental 1310 TARA HILLS DR STE F PINOLE CA 94564	DELISTED HAZ

Siteid: 382410
Latitude: 37.995740
Longitude: -122.304630
Original Source: CHAZ
Record Date: 22-MAR-2018

43	1 of 1	WSW	0.32 / 1,700.91	212.18 / 16	SHELL-BRANDED SERVICE STATION 1401 FITZGERALD DRIVE PINOLE CA 94547	LUST

Global ID: T10000007054
County: CONTRA COSTA
Status: COMPLETED - CASE CLOSED
Latitude: 37.98842
Status Date: 5/22/2020
Longitude: -122.31159
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 07-0903
Potential COC: Benzene, Ethylbenzene, Gasoline, Toluene, Total Petroleum Hydrocarbons (TPH), Xylene
Local Case No:
How Discovered:

Begin Date:	6/22/2007	**Stop Method:**	
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)	**Stop Description:**	
Local Agency:		**Case Worker:**	MYM
CUF Case:	YES	**File Location:**	All Files are on GeoTracker or in the Local Agency Database

Potential Media of Concern: Other Groundwater (uses other than drinking water)
How Discovered Description:
Calwater Watershed Name: San Pablo - Pinole (206.60)
DWR GW Subbasin Name:
Disadvantaged Community:
Calenviroscreen Score: 31-35%
Site History:

This site is an operating gasoline station located at the intersection of Fitzgerald Drive and Pinole Vista Crossing in Pinole, California. The site layout includes fuel dispenser islands, a station building, three underground storage tanks (USTs), and a car wash. Depth to water (DTW) at the site is unknown. The closet site listed in the California Geotracker website with DTW information in 2298 Appian Way in Pinole, located approximately 1.14 miles from the site. DTW at this site has ranged from approximately 9 to 29.5 feet below grade. (06/08/2007 Site Investigation Work Plan)

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 5/22/2020
Action: Closure/No Further Action Letter

Action Type: RESPONSE
Date : 3/31/2020
Action: Email Correspondence

Action Type: ENFORCEMENT
Date : 3/23/2020
Action: Staff Letter

Action Type: RESPONSE
Date : 1/31/2020
Action: Well Destruction Report

Action Type: ENFORCEMENT
Date : 11/21/2019
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 9/16/2019
Action: Notification - Public Notice of Case Closure

Action Type: RESPONSE
Date : 8/30/2019
Action: Request for Closure - Regulator Responded

Action Type: ENFORCEMENT
Date : 8/7/2019
Action: Staff Letter

Action Type: RESPONSE
Date : 7/15/2019
Action: Soil and Water Investigation Report

Action Type: ENFORCEMENT
Date : 2/11/2019
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 2/8/2019
Action: Email Correspondence

Action Type: RESPONSE
Date : 11/29/2018
Action: Soil and Water Investigation Workplan - Regulator Responded

Action Type: ENFORCEMENT
Date : 10/29/2018
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 10/11/2017
Action: 13267 Requirement

Action Type: RESPONSE
Date : 6/30/2017
Action: Soil and Water Investigation Workplan - Addendum - Regulator Responded

Action Type: ENFORCEMENT
Date : 5/8/2017
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 4/21/2017
Action: Site Visit / Inspection / Sampling

Action Type: ENFORCEMENT
Date : 7/27/2016
Action: 13267 Requirement

Action Type: RESPONSE
Date : 4/4/2016
Action: Other Report / Document

Action Type: RESPONSE
Date : 3/29/2016
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 3/1/2016
Action: 13267 Requirement

Action Type: RESPONSE
Date : 1/27/2016
Action: Correspondence

Action Type: ENFORCEMENT
Date : 1/19/2016
Action: Email Correspondence

Action Type: ENFORCEMENT
Date : 11/24/2015
Action: Staff Letter

Action Type: RESPONSE
Date : 10/30/2015
Action: Soil and Water Investigation Report

Action Type: ENFORCEMENT
Date : 9/3/2015
Action: 13267 Requirement

Action Type: ENFORCEMENT
Date : 8/25/2015
Action: Site Visit / Inspection / Sampling

Action Type: RESPONSE
Date : 6/15/2015
Action: Email Correspondence

Action Type: RESPONSE
Date : 6/15/2015
Action: Other Workplan - Regulator Responded

Action Type: RESPONSE
Date : 6/15/2015
Action: Other Report / Document

Action Type: RESPONSE
Date : 6/12/2015
Action: Email Correspondence

Action Type: RESPONSE
Date : 6/22/2007
Action: Unauthorized Release Form

Action Type: Other
Date : 6/22/2007
Action: Leak Reported

Action Type: Other
Date : 6/22/2007
Action: Leak Began

Action Type: Other
Date : 6/22/2007
Action: Leak Discovery

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: MARTIN MUSONGE
City: OAKLAND
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
Email: martin.musonge@waterboards.ca.gov
Phone No:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 5/22/2020

Status: Open - Eligible for Closure
Status Date: 9/15/2019

Status: Open - Site Assessment
Status Date: 8/6/2015

Status: Open - Inactive
Status Date: 6/22/2015

Status: Open - Case Begin Date
Status Date: 6/22/2007

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: SHELL-BRANDED SERVICE STATION
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig: D
CUF Amount Paid:
Potential COC: BENZENE, ETHYLBENZENE, GASOLINE, TOLUENE, TOTAL PETROLEUM HYDROCARBONS (TPH), XYLENE
Facility Type:
Composting Method:
Address: 1401 FITZGERALD DRIVE
City: PINOLE
Zip: 94547
County: CONTRA COSTA
CUF Claim: 20838
File Location: ALL FILES ARE ON GEOTRACKER OR IN THE LOCAL AGENCY DATABASE
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000007054
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 5/22/2020

Cleanup History Link:	https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T10000007054&tabname=regulatoryhistory
Potential Media of Concern:	OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)
User Defined Beneficial Use:	
DWR GW Sub Basin:	
Calwater Watershed Name:	San Pablo - Pinole (206.60)
Post Closure Site Management:	
Future Land Use:	
Cleanup Oversight Agencies:	SAN FRANCISCO BAY RWQCB (REGION 2) (LEAD) - CASE #: 07-0903 CASEWORKER: MARTIN MUSONGE
Gndwater Monitoring Freque:	
Designated Beneficial Use Desc:	Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.
Site History:	

This site is an operating gasoline station located at the intersection of Fitzgerald Drive and Pinole Vista Crossing in Pinole, California. The site layout includes fuel dispenser islands, a station building, three underground storage tanks (USTs), and a car wash. Depth to water (DTW) at the site is unknown. The closet site listed in the California Geotracker website with DTW information in 2298 Appian Way in Pinole, located approximately 1.14 miles from the site. DTW at this site has ranged from approximately 9 to 29.5 feet below grade. (06/08/2007 Site Investigation Work Plan)

LUST Sites from GeoTracker Search - Cleanup Status History

Status:	Completed - Case Closed
Date :	5/22/2020
Status:	Open - Eligible for Closure
Date :	9/15/2019
Status:	Open - Site Assessment
Date :	8/6/2015
Status:	Open - Inactive
Date :	6/22/2015
Status:	Open - Case Begin Date
Date :	6/22/2007

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type:	Other Regulatory Actions
Action Date:	5/22/2020
Received Issue Date:	5/22/2020
Action:	Closure/No Further Action Letter
Doc Link:	https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6436362&temptable=ENFORCEMENT
Title Description Comments:	

Transmittal of Uniform Closure Letter

Action Type:	Response Requested - Other
Action Date:	3/31/2020
Received Issue Date:	3/31/2020
Action:	Email Correspondence
Doc Link:	
Title Description Comments:	

Submit a case closure summary to expedite compilation of case closure package.

Action Type:	Other Regulatory Actions
Action Date:	3/23/2020
Received Issue Date:	3/23/2020
Action:	Staff Letter
Doc Link:	https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6430884&temptable=ENFORCEMENT
Title Description Comments:	

Approve Well Destruction Report and Request Case Closure Summary

Action Type: Response Requested - Reports
Action Date: 1/31/2020
Received Issue Date: 1/31/2020
Action: Well Destruction Report
Doc Link:
Title Description Comments:

Submit a technical report documenting destruction of monitoring wells that will no longer be needed at the Site. The report was received on 1/31/2020 but it was uploaded under the monitoring reports section. The case closure package for this case will now be compiled.

Action Type: Enforcement/Orders
Action Date: 11/21/2019
Received Issue Date: 11/21/2019
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6421282&temptable=ENFORCEMENT
Title Description Comments:

Requirement to Submit a Technical Report for Monitoring Well Destruction and Waste Removal

Action Type: Notices
Action Date: 9/16/2019
Received Issue Date: 9/16/2019
Action: Notification - Public Notice of Case Closure
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6421029&temptable=ENFORCEMENT
Title Description Comments:

Notice of Intent to Issue a Uniform Closure Letter

Action Type: Response Requested - Other
Action Date: 8/30/2019
Received Issue Date: 7/15/2019
Action: Request for Closure - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=6001296
Title Description Comments:

Adjacent property addresses and contacts to enable completion of a public notice of pending case closure. - R2 staff issued a notice of intent to close the case in August 2019.

Action Type: Other Regulatory Actions
Action Date: 8/7/2019
Received Issue Date: 8/7/2019
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6411542&temptable=ENFORCEMENT
Title Description Comments:

Approval of Additional Site Assessment Report and Request for Adjacent Property Addresses and Contacts

Action Type: Response Requested - Reports
Action Date: *7/15/2019
Received Issue Date: 7/15/2019
Action: Soil and Water Investigation Report
Doc Link:
Title Description Comments:

Submit a technical report containing remedial investigation analytical results based on the approved workplan. The objective is to define the vertical and horizontal extent of soil and groundwater contamination emanating from the Shell Site and update the conceptual site model.

Action Type: Enforcement/Orders

Action Date: 2/11/2019
Received Issue Date: 2/11/2019
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6385032&temptable=ENFORCEMENT
Title Description Comments:

Approval of Workplan and Requirement for a Technical Report

Action Type: Other Regulatory Actions
Action Date: 2/8/2019
Received Issue Date: 2/8/2019
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6384933&temptable=ENFORCEMENT
Title Description Comments:

Addendum for Additional Site Assessment

Action Type: Response Requested - Workplans
Action Date: 11/29/2018
Received Issue Date: 11/29/2018
Action: Soil and Water Investigation Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5977990
Title Description Comments:

A technical report containing a remedial investigation workplan for soil and groundwater to confirm the magnitude of soil and groundwater contamination and update the conceptual site model. - R2 staff plans to approve the workplan as written by January 15, 2019.

Action Type: Enforcement/Orders
Action Date: 10/29/2018
Received Issue Date: 10/29/2018
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6373741&temptable=ENFORCEMENT
Title Description Comments:

Approval of technical report and requirement for submittal of a remedial investigation technical report

Action Type: Enforcement/Orders
Action Date: 10/11/2017
Received Issue Date: 10/11/2017
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6338669&temptable=ENFORCEMENT
Title Description Comments:

Conditional Approval of Workplan and Requirement for Completion Report - Shell Branded Gas Station, 1401 Fitzgerald, Drive, Pinole, Contra Costa County

Action Type: Response Requested - Workplans
Action Date: 6/30/2017
Received Issue Date: 6/30/2017
Action: Soil and Water Investigation Workplan - Addendum - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5919289
Title Description Comments:

Action Type: Enforcement/Orders
Action Date: 5/8/2017
Received Issue Date: 5/8/2017
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6319324&temptable=ENFORCEMENT
Title Description Comments:

Requirement for a Technical Report for Additional Soil and Groundwater Assessment Work Plan - Shell Branded Gas Station, 1401 Fitzgerald Drive, Pinole

Action Type: Other Regulatory Actions
Action Date: 4/21/2017
Received Issue Date: 4/21/2017
Action: Site Visit / Inspection / Sampling
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6320135&temptable=ENFORCEMENT
Title Description Comments:

Site Inspection to Verify the Current Condition of the Site and Prepare to Receive and Review a Technical Report Documenting Implementation of a Remedial Investigation based on an Approved Work Plan. Shell had previously refused to own up to their responsibility but has now claimed the Site in Geotraker and would now comply as required.

Action Type: Enforcement/Orders
Action Date: 7/27/2016
Received Issue Date: 7/27/2016
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6293736&temptable=ENFORCEMENT
Title Description Comments:

Requirement for e-reporting

Action Type: Response Requested - Other
Action Date: 4/4/2016
Received Issue Date: 4/4/2016
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5885617
Title Description Comments:

Information about Property Ownership

Action Type: Response Requested - Other
Action Date: 3/29/2016
Received Issue Date: 3/29/2016
Action: Other Report / Document
Doc Link:
Title Description Comments:

Petition to Review Action of Claiming Site in GeoTracker

Action Type: Response Requested - Other
Action Date: 3/29/2016
Received Issue Date: 3/29/2016
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5885342
Title Description Comments:

Petition to Review Action of Claiming Site in GeoTracker

Action Type: Enforcement/Orders
Action Date: 3/1/2016
Received Issue Date: 3/1/2016
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6277661&temptable=ENFORCEMENT
Title Description Comments:

Requirement to Claim Site and Upload Electronic Reports

Action Type: Response Requested - Other
Action Date: 1/27/2016

Received Issue Date: 1/27/2016
Action: Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5876514
Title Description Comments:

Letter Requesting Guidance on Site

Action Type: Other Regulatory Actions
Action Date: 1/19/2016
Received Issue Date: 1/19/2016
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6276847&temptable=ENFORCEMENT
Title Description Comments:

Deadline Extension to Claiming Site

Action Type: Other Regulatory Actions
Action Date: 11/24/2015
Received Issue Date: 11/24/2015
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6269358&temptable=ENFORCEMENT
Title Description Comments:

Courtesy Notice

Action Type: Enforcement/Orders
Action Date: 9/3/2015
Received Issue Date: 9/3/2015
Action: 13267 Requirement
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6259409&temptable=ENFORCEMENT
Title Description Comments:

Requirement for a Technical Report for Additional Soil and Groundwater Assessment Workplan

Action Type: Other Regulatory Actions
Action Date: 8/25/2015
Received Issue Date: 8/25/2015
Action: Site Visit / Inspection / Sampling
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6259010&temptable=ENFORCEMENT
Title Description Comments:

Site Inspection

Action Type: Response Requested - Other
Action Date: 6/15/2015
Received Issue Date: 6/15/2015
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5845477
Title Description Comments:

Site Investigation Report - 7.19.2007

Action Type: Response Requested - Workplans
Action Date: 6/15/2015
Received Issue Date: 6/15/2015
Action: Other Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5845475
Title Description Comments:

Site Investigation Work Plan - 6.8.2007 - R2 staff will issue a letter shortly requiring the submittal of a work plan

Action Type: Response Requested - Other
Action Date: 6/15/2015
Received Issue Date: 6/15/2015
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5845472
Title Description Comments:

Contra Costa Health Services Reports - 6.15.15

Action Type: Response Requested - Other
Action Date: 6/12/2015
Received Issue Date: 6/12/2015
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5845466
Title Description Comments:

Report Inquiries of Site - 6.9.15

Action Type: Response Requested - Other
Action Date: 6/22/2007
Received Issue Date: 7/9/2009
Action: Unauthorized Release Form
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T10000007054&doc_id=5845462
Title Description Comments:

Underground Storage Tank Unauthorized Release (Leak)/Contamination Report -06/22/2007 certified by Contra Costa County on 07/06/2009

Action Type: Response Requested - Reports
Action Date: 10/30/2015
Received Issue Date:
Action: Soil and Water Investigation Report
Doc Link:
Title Description Comments:

Submit a technical report containing a workplan for additional soil and groundwater assessment.

Action Type: Leak Action
Action Date: 6/22/2007
Received Issue Date:
Action: Leak Began
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 6/22/2007
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 6/22/2007
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/9869549691/T10000007054.PDF

Size : 53 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 8/6/2019

Title: MW-3 (MW-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8245797216/T10000007054.PDF
Size : 154 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 8/6/2019

Title: MW-1 (MW-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5149658441/T10000007054.PDF
Size : 145 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 8/6/2019

Title: MW-2 (MW-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1556463420/T10000007054.PDF
Size : 148 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 8/6/2019

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents **Size :**
Document Date: 5/22/2020 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER **Submitted:**
Title: TRANSMITTAL OF UNIFORM CLOSURE LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6436362

Document Type: Site Documents **Size :**
Document Date: 3/23/2020 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: APPROVE WELL DESTRUCTION REPORT AND REQUEST CASE CLOSURE SUMMARY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6430884

Document Type: Site Documents **Size :** 2,416 KB
Document Date: 1/31/2020 **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: WELL DESTRUCTION REPORT **Submitted:**
Title: WELL DESTRUCTION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6390566349/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 11/21/2019 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT TO SUBMIT A TECHNICAL REPORT FOR MONITORING WELL DESTRUCTION AND WASTE REMOVAL
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6421282

Document Type: Site Documents **Size :**
Document Date: 9/16/2019 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: NOTIFICATION - PUBLIC NOTICE OF CASE CLOSURE **Submitted:**
Title: NOTICE OF INTENT TO ISSUE A UNIFORM CLOSURE LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6421029

Document Type: Site Documents **Size :** 373 KB
Document Date: 8/9/2019 **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: CORRESPONDENCE **Submitted:**
Title: LOW THREAT CLOSURE POLICY - PROPERTY INFORMATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2500250697/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 8/7/2019 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: APPROVAL OF ADDITIONAL SITE ASSESSMENT REPORT AND REQUEST FOR ADJACENT PROPERTY ADDRESSES AND CONTACTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6411542

Document Type: Monitoring Reports **Size :** 41 KB
Document Date: 7/26/2019 **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL STATUS REPORT - FIRST HALF 2019
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7649624764/T10000007054.PDF

Document Type: Site Documents **Size :** 8,631 KB
Document Date: 7/15/2019 **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: ADDITIONAL SITE ASSESSMENT REPORT AND CLOSURE REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7913271427/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 2/11/2019 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: APPROVAL OF WORKPLAN AND REQUIREMENT FOR A TECHNICAL REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6385032

Document Type: Site Documents **Size :**
Document Date: 2/8/2019 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: EMAIL CORRESPONDENCE **Submitted:**
Title: ADDENDUM FOR ADDITIONAL SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6384933

Document Type: Monitoring Reports **Size :** 55 KB
Document Date: 1/31/2019 **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL STATUS REPORT 2ND HALF 2018
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7034142553/T10000007054.PDF

Document Type: Site Documents **Size :** 467 KB
Document Date: 11/29/2018 **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: OTHER WORKPLAN **Submitted:**
Title: WORK PLAN FOR ADDITIONAL SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3662256062/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 10/29/2018 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: APPROVAL OF TECHNICAL REPORT AND REQUIREMENT FOR SUBMITTAL OF A REMEDIAL INVESTIGATION TECHNICAL REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6373741

Document Type: Monitoring Reports **Size :** 59 KB
Document Date: 7/23/2018* **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SEMI-ANNUAL STATUS REPORT-FIRST HALF 2018
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5788718879/T10000007054.PDF

Document Type: Site Documents **Size :** 9,403 KB
Document Date: 2/16/2018* **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: CONCEPTUAL SITE MODEL **Submitted:**
Title: SUBSURFACE INVESTIGATION REPORT AND SITE CONCEPTUAL MODEL
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8565719842/T10000007054.PDF

Document Type: Site Documents **Size :** 36 KB
Document Date: 2/9/2018* **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: CORRESPONDENCE **Submitted:**
Title: CONSULTANT MANAGEMENT TRANSITION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1723462045/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 10/11/2017 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: CONDITIONAL APPROVAL OF WORKPLAN AND REQUIREMENT FOR COMPLETION REPORT - SHELL BRANDED GAS STATION, 1401 FITZGERALD, DRIVE, PINOLE, CONTRA COSTA COUNTY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6338669

Document Type: Site Documents **Size :** 1,155 KB
Document Date: 6/30/2017 **Submitted By:** AECOM (CONTRACTOR)
Type: SOIL AND WATER INVESTIGATION WORKPLAN **Submitted:**
Title: SUBSURFACE INVESTIGATION WORK PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3439360201/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 5/8/2017 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT FOR A TECHNICAL REPORT FOR ADDITIONAL SOIL AND GROUNDWATER ASSESSMENT WORK PLAN - SHELL BRANDED GAS STATION, 1401 FITZGERALD DRIVE, PINOLE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6319324

Document Type: Site Documents **Size :**
Document Date: 4/21/2017 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: SITE VISIT / INSPECTION / SAMPLING **Submitted:**
Title: SITE INSPECTION TO VERIFY THE CURRENT CONDITION OF THE SITE AND PREPARE TO RECEIVE AND REVIEW A TECHNICAL REPORT DOCUMENTING IMPLEMENTATION OF A REMEDIAL INVESTIGATION BASED ON AN APPROVED WORK PLAN. SHELL HAD PREVIOUSLY REFUSED TO OWN UP TO THEIR RESPONSIBILITY BUT HAS NOW CLAIMED THE SITE IN GEOTRAKER AND WOULD NOW COMPLY AS REQUIRED.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6320135

Document Type: Site Documents **Size :** 74 KB
Document Date: 1/12/2017* **Submitted By:** AECOM (CONTRACTOR)
Type: CORRESPONDENCE **Submitted:**
Title: EQUILON ENTERPRISES LLC CORRECTION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2358237922/T10000007054.PDF

Document Type: Site Documents **Size :**
Document Date: 7/27/2016 **Submitted By:** WINNE LOO (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT FOR E-REPORTING
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6293736

Document Type: Site Documents **Size :**
Document Date: 4/4/2016 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: INFORMATION ABOUT PROPERTY OWNERSHIP
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5885617

Document Type: Site Documents **Size :**
Document Date: 3/29/2016 **Submitted By:** LAURENT MEILLIER (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: PETITION TO REVIEW ACTION OF CLAIMING SITE IN GEOTRACKER - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5885342

Document Type: Site Documents **Size :**
Document Date: 3/29/2016 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: PETITION TO REVIEW ACTION OF CLAIMING SITE IN GEOTRACKER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5885342

Document Type: Site Documents **Size :**
Document Date: 3/1/2016 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT TO CLAIM SITE AND UPLOAD ELECTRONIC REPORTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6277661

Document Type: Site Documents **Size :**
Document Date: 1/27/2016 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: CORRESPONDENCE **Submitted:**
Title: LETTER REQUESTING GUIDANCE ON SITE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5876514

Document Type: Site Documents **Size :**
Document Date: 1/19/2016 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: EMAIL CORRESPONDENCE **Submitted:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Title: DEADLINE EXTENSION TO CLAIMING SITE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6276847

Document Type: Site Documents **Size :**
Document Date: 11/24/2015 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: COURTESY NOTICE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6269358

Document Type: Site Documents **Size :**
Document Date: 9/3/2015 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: 13267 REQUIREMENT **Submitted:**
Title: REQUIREMENT FOR A TECHNICAL REPORT FOR ADDITIONAL SOIL AND GROUNDWATER ASSESSMENT WORKPLAN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6259409

Document Type: Site Documents **Size :**
Document Date: 8/25/2015 **Submitted By:** MARTIN Y. MUSONGE (REGULATOR)
Type: SITE VISIT / INSPECTION / SAMPLING **Submitted:**
Title: SITE INSPECTION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&enforcement_id=6259010

Document Type: Site Documents **Size :**
Document Date: 6/15/2015 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: EMAIL CORRESPONDENCE **Submitted:**
Title: CONTRA COSTA HEALTH SERVICES REPORTS - 6.15.15
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5845472

Document Type: Site Documents **Size :**
Document Date: 6/15/2015 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: OTHER WORKPLAN **Submitted:**
Title: SITE INVESTIGATION WORK PLAN - 6.8.2007
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5845475

Document Type: Site Documents **Size :**
Document Date: 6/15/2015 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: SITE INVESTIGATION REPORT - 7.19.2007
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5845477

Document Type: Site Documents **Size :**
Document Date: 6/12/2015 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: EMAIL CORRESPONDENCE **Submitted:**
Title: REPORT INQUIRIES OF SITE - 6.9.15
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5845466

Document Type: Site Documents **Size :**
Document Date: 7/9/2009 **Submitted By:** CAROLYN LAM (REGULATOR)
Type: UNAUTHORIZED RELEASE FORM **Submitted:**
Title: UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION REPORT -06/22/2007 CERTIFIED BY CONTRA COSTA COUNTY ON 07/06/2009 - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T10000007054&document_id=5845462

44	1 of 1	WSW	0.43 / 2,283.67	253.49 / 57	Toys"R" Us #5804 1330 FITZGERALD DR PINOLE CA 94564	DELISTED HAZ

Siteid: 366391
Latitude: 37.984741
Longitude: -122.311775
Original Source: CHAZ
Record Date: 22-MAR-2018

45	1 of 1	N	0.72 / 3,800.55	175.54 / -21	CA AUTISM FOUNDATION, A BETTER CHANCE II 982 MARLESTA ROAD	ENVIROSTOR

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					PINOLE CA 94564	

Estor/EPA ID:	07830003	**Assembly District:**	15
Site Code:	200620	**Senate District:**	09
Nat Priority List:	NO	**Permit Renewal Lead:**	
APN:	NONE SPECIFIED	**Public Partici Spclst:**	
Census Tract:	6013359102	**Project Manager:**	
Site Type:	CALMORTGAGE	**County:**	CONTRA COSTA
Address Description:	982 MARLESTA ROAD	**Latitude:**	38.0018001344283
Office:	CLEANUP SACRAMENTO	**Longitude:**	-122.305354422811
Special Program:		**Acres:**	0 ACRES
Funding:	CALMORTGAGE	**Supervisor:**	WILLIAM BECKMAN

Cleanup Status: NO ACTION REQUIRED AS OF 4/12/1995
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
School District:
Past Use that Caused Contam: NONE
Potential Media Affected: NO MEDIA AFFECTED
Potential Contamin of Concern:

NO CONTAMINANTS FOUND

Site History:

DTSC performed an environmental assessment for the Office of Statewide Planning and Development, Cal-Mortgage Loan Insurance Division a sister agency as a part of the real estate due diligence process under a Memorandum of Understanding (MOU) for the guaranteed loan insurance program for the construction, improvement, and expansion of various health care facilities.

Status: NO ACTION REQUIRED
Program Type: CALMORTGAGE
CalEnviroScreen Score: 46-50%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=07830003

Completed Activities

Title: Phase 1
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07830003&doc_id=5016016
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Phase 1
Date Completed: 4/12/1995
Comments:

46	1 of 1	NE	0.85 / 4,486.38	138.33 / -58	PINOLE DOHRMAN, PAWSEY CONTRA COSTA COUNTY PINOLE CA 94564	MRDS

Dep ID:	10029592	**I1:**	19
Dev Status:	OCCURRENCE	**Latitude:**	38.001892
Code List:	DIT	**Longitude:**	-122.295288
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10029592		

Commodity

I1:	46	**Line:**	1
Code:	DIT	**Inserted By:**	MRDS migration
Commodity:	Diatomite	**Insert Date:**	29-OCT-02
Commodity Type:	Non-metallic	**Updated By:**	USGS
Commodity Group:	Diatomite	**Update Date:**	29-OCT-02
Importance:	Primary		

Names

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

I1:	18	***Inserted By:***	MRDS migration
Status:	Current	***Insert Date:***	29-OCT-02
Site Name:	Pinole Dohrman, Pawsey	***Updated By:***	USGS
Line:	1	***Update Date:***	29-OCT-02

47	***1 of 2***	***WNW***	***0.86 / 4,542.37***	***128.01 / -68***	***CALIBER: BETA ACADEMY 2465 DOLAN WAY SAN PABLO CA 94806***	***SCH***

Estor/EPA ID:	60002865	***Permit Renewal Lead:***	
Site Code:	204317	***Project Manager:***	
Nat Priority List:	NO	***Supervisor:***	JOSE SALCEDO
Acres:	9.12 ACRES	***Public Partici Spclst:***	
Special Program:		***Census Tract:***	6013364002
Funding:	SCHOOL DISTRICT	***County:***	CONTRA COSTA
Assembly District:	, 15	***Latitude:***	37.993898
Senate District:	, 09	***Longitude:***	-122.320799

School District: WEST CONTRA COSTA UNIFIED SCHOOL DISTRICT
APN: APN 403-220-005
Cleanup Status: NO FURTHER ACTION AS OF 4/8/2020
Cleanup Oversight Agencies: CONTRA COSTA COUNTY - LEAD AGENCY
Site Type: SCHOOL
Office: NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA
Past Use that Caused Contam: LAND DISPOSAL / FILL, SCHOOL - ELEMENTARY
Potential Media Affected: SOIL
Potential Contamin of Concern:

METALS ORGANOCHLORINE PESTICIDES (8081 OCPS) POLYCHLORINATED BIPHENYLS (PCBS) UNCATEGORIZED

SITE HISTORY:

Caliber Beta Academy, located at 2465 Dolan Way, San Pablo, Contra Costa County, is a 9.12-acre expansion Site on Assessor's Parcel Number 403-220-005. The Caliber Beta Academy is proposing to renovate the former Kerry Hills Elementary School site. The proposed school will include 40 classrooms and accommodate 900 students. The Site appears to have been used for agricultural purposes in at least 1946 (possibly hay/grazing). The Site was graded and filled and construction of two school buildings, parking lots, and sports fields was completed by 1964. One of the buildings was removed between 1974 and 1982. The 1998 aerial photograph shows the addition of 5 portable classrooms on site. The 2005 aerial photograph shows 14 portable classrooms. By 2009, there was a total of 16 portable classrooms at the Site. The 2012 aerial photograph matches the current layout of one main building and 10 portables. The Site is located on top of a hill in a residential area bounded by residential properties on all sides. Historical topographic maps show the property has been leveled and widened with fill material to its current boundaries. The northwest, southwest and northeast sides have sloped areas between the sports fields and the neighboring residential homes. The southeast side faces Dolan Way and has houses across the street. The Phase I ESA, received on 8-6-2019, identifies asbestos and lead as chemicals of potential concern (COPC) and recommends a hazardous materials survey be performed prior to renovation to characterize impacted building materials for potential asbestos and lead. Due to the presence of undocumented fill material and the site being within 4 miles of an NOA source, the Phase I received a PEA required determination on 8-20-2019. Site visit and Scoping meeting held on 10-18-2019. Signed EOA was held up in mail and fully executed on 11-1-2019. PEA workplan was received on 11-15-2019 and approved on 12-13-2019. Field work occurred on 1-13 & 14-2020 with DTSC oversight. PEA report was received on 2-13-2020. The report identified detectable amounts of lead, arsenic, and a single sample of PCBs, all of which were below the screening levels. The non-cancer index was 0.32 and the cancer risk was 4.4e-08. Public comment period ended on March 17, 2020 with no comments received. A No Further Action determination letter was sent on April 8, 2020.

Status: NO FURTHER ACTION
Program Type: SCHOOL INVESTIGATION
CalEnviroScreen Score: 76-80%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002865

Completed Activities

Title: PEA Scoping Meeting
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 11/1/2019
Comments: Meeting was held 10-18-2019. EOA was delayed in mail. EOA fully executed 11-01-2019.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Title: Phase I ESA
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60464862
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Phase 1
Date Completed: 8/20/2019
Comments: DTSC issued a PEAR determination in a letter dated Aug 20, 2019

Title: Caliber PEA Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60472143
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Report
Date Completed: 4/8/2020
Comments:

Title: EOP
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60466043
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Environmental Oversight Agreement Application
Date Completed: 9/20/2019
Comments: DTSC received the application via email on 9/20/19

Title: Field work for PEA
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 1/14/2020
Comments: Field work complete

Title: Caliber: Beta Academy (204317)
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&enforcement_id=60469213
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Environmental Oversight Agreement
Date Completed: 11/1/2019
Comments: US Mail finally delivered the signed documents ten days after mailing it.

Title: PEA Report Public Comment Period and Hearing
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60476987
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 3/26/2020
Comments:

Title: PEA Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60466041
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Workplan
Date Completed: 12/13/2019
Comments:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
47	2 of 2	WNW	0.86 / 4,542.37	128.01 / -68	CALIBER: BETA ACADEMY 2465 DOLAN WAY SAN PABLO CA 94806	ENVIROSTOR

Estor/EPA ID:	60002865	**Assembly District:**	, 15
Site Code:	204317	**Senate District:**	, 09
Nat Priority List:	NO	**Permit Renewal Lead:**	
APN:	APN 403-220-005	**Public Partici Spclst:**	
Census Tract:	6013364002	**Project Manager:**	
Site Type:	SCHOOL	**County:**	CONTRA COSTA
Address Description:	2465 DOLAN WAY	**Latitude:**	37.993898
Office:	NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA	**Longitude:**	-122.320799
Special Program:		**Acres:**	9.12 ACRES
Funding:	SCHOOL DISTRICT	**Supervisor:**	JOSE SALCEDO

Cleanup Status: NO FURTHER ACTION AS OF 4/8/2020
Cleanup Oversight Agencies: CONTRA COSTA COUNTY - LEAD AGENCY
School District: WEST CONTRA COSTA UNIFIED SCHOOL DISTRICT
Past Use that Caused Contam: LAND DISPOSAL / FILL, SCHOOL - ELEMENTARY
Potential Media Affected: SOIL
Potential Contamin of Concern:

METALS ORGANOCHLORINE PESTICIDES (8081 OCPS) POLYCHLORINATED BIPHENYLS (PCBS) UNCATEGORIZED

Site History:

Caliber Beta Academy, located at 2465 Dolan Way, San Pablo, Contra Costa County, is a 9.12-acre expansion Site on Assessor's Parcel Number 403-220-005. The Caliber Beta Academy is proposing to renovate the former Kerry Hills Elementary School site. The proposed school will include 40 classrooms and accommodate 900 students. The Site appears to have been used for agricultural purposes in at least 1946 (possibly hay/grazing). The Site was graded and filled and construction of two school buildings, parking lots, and sports fields was completed by 1964. One of the buildings was removed between 1974 and 1982. The 1998 aerial photograph shows the addition of 5 portable classrooms on site. The 2005 aerial photograph shows 14 portable classrooms. By 2009, there was a total of 16 portable classrooms at the Site. The 2012 aerial photograph matches the current layout of one main building and 10 portables. The Site is located on top of a hill in a residential area bounded by residential properties on all sides. Historical topographic maps show the property has been leveled and widened with fill material to its current boundaries. The northwest, southwest and northeast sides have sloped areas between the sports fields and the neighboring residential homes. The southeast side faces Dolan Way and has houses across the street. The Phase I ESA, received on 8-6-2019, identifies asbestos and lead as chemicals of potential concern (COPC) and recommends a hazardous materials survey be performed prior to renovation to characterize impacted building materials for potential asbestos and lead. Due to the presence of undocumented fill material and the site being within 4 miles of an NOA source, the Phase I received a PEA required determination on 8-20-2019. Site visit and Scoping meeting held on 10-18-2019. Signed EOA was held up in mail and fully executed on 11-1-2019. PEA workplan was received on 11-15-2019 and approved on 12-13-2019. Field work occurred on 1-13 & 14-2020 with DTSC oversight. PEA report was received on 2-13-2020. The report identified detectable amounts of lead, arsenic, and a single sample of PCBs, all of which were below the screening levels. The non-cancer index was 0.32 and the cancer risk was 4.4e-08. Public comment period ended on March 17, 2020 with no comments received. A No Further Action determination letter was sent on April 8, 2020.

Status: NO FURTHER ACTION
Program Type: SCHOOL INVESTIGATION
CalEnviroScreen Score: 76-80%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002865

Completed Activities

Title: Phase I ESA
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60464862
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Phase 1
Date Completed: 8/20/2019
Comments: DTSC issued a PEAR determination in a letter dated Aug 20, 2019

Title: Caliber PEA Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60472143
Area Name:
Area Link:
Sub Area:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Sub Area Link:
Document Type: Preliminary Endangerment Assessment Report
Date Completed: 4/8/2020
Comments:

Title: PEA Scoping Meeting
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 11/1/2019
Comments: Meeting was held 10-18-2019. EOA was delayed in mail. EOA fully executed 11-01-2019.

Title: PEA Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60466041
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Workplan
Date Completed: 12/13/2019
Comments:

Title: Caliber: Beta Academy (204317)
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&enforcement_id=60469213
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Environmental Oversight Agreement
Date Completed: 11/1/2019
Comments: US Mail finally delivered the signed documents ten days after mailing it.

Title: Field work for PEA
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 1/14/2020
Comments: Field work complete

Title: EOP
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60466043
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Environmental Oversight Agreement Application
Date Completed: 9/20/2019
Comments: DTSC received the application via email on 9/20/19

Title: PEA Report Public Comment Period and Hearing
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002865&doc_id=60476987
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 3/26/2020
Comments:

48	1 of 1	ENE	0.96 / 5,046.03	37.79 / -159	MERCURY DRY CLEANERS 2714 PINOLE VALLEY ROAD PINOLE CA 94564	ENVIROSTOR

Estor/EPA ID:	07720037	***Assembly District:***	15
Site Code:	201298, 202391	***Senate District:***	09
Nat Priority List:	NO	***Permit Renewal Lead:***	
APN:	401-310-010, 401-310-021, 401-310-022, 401310002, 401310003, 401310017, 401310018, 401310019	***Public Partici Spclst:***	
Census Tract:	6013360101	***Project Manager:***	PARAG SHAH
Site Type:	VOLUNTARY CLEANUP	***County:***	CONTRA COSTA
Address Description:	2714 PINOLE VALLEY ROAD	***Latitude:***	37.995301548979
Office:	CLEANUP BERKELEY	***Longitude:***	-122.286452507484
Special Program:	VOLUNTARY CLEANUP PROGRAM	***Acres:***	3.63 ACRES
Funding:	SITE PROPONENT	***Supervisor:***	WHITNEY SMITH

Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE AS OF 4/9/2008
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
School District:
Past Use that Caused Contam: DRY CLEANING
Potential Media Affected: OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER), SOIL
Potential Contamin of Concern:

1,2-DICHLOROETHYLENE (CIS) TETRACHLOROETHYLENE (PCE) TRICHLOROETHYLENE (TCE) VINYL CHLORIDE

Site History:

The former Mercury Dry Cleaners operated at the Pinole Valley Shopping Center from 1959 to 1993. In February 1989, a citizen's complaint specified that the cleaners had left solvent filters outside the back door of the facility. In May 1989, the County inspected the facility and noted that the cleaners stored and disposed off-site two 55-gallon drums of perchloroethylene cartridges every three months. Subsequent to taking ownership of the shopping center, Bank of America notified the Regional Water Quality Control Board (RWQCB) of potential solvent releases at the Site. Bank of America conducted a series of site investigations under the RWQCB's oversight and noted that both the soil and groundwater had been impacted by the solvents. In 1999, the RWQCB referred the Site to DTSC for oversight. A request was approved by DTSC on August 22, 2014 to cease all groundwater monitoring activities at the Site. Currently, a LUC is the final and only remedy for the Site. On April 24, 2017, a LUC (Deed Restrictions) was recorded prohibiting the use of the Site for residences, hospitals for humans, schools for persons under 21 years and day care centers for children. Other requirements in the LUC include annual inspections of the Property verifying compliance with the LUC. PS (27-Aug-2018)

Status: CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: 46-50%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=07720037

Land Use Restrictions

Site Management Requirements:
DAY CARE CENTER PROHIBITED
HOSPITAL USE PROHIBITED
LAND USE COVENANT
NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL
NO EXCAVATION OR ACTIVITIES WHICH DISTURB THE SOIL BELOW A SPECIFIED DEPTH (SEE COVENANT FOR DEPTH) WITHOUT AGENCY REVIEW AND APPROVAL OF A SOIL MANAGEMENT PLAN
NO OIL OR GAS EXTRACTION AT ANY DEPTH
NOTIFY AFTER CHANGE OF PROPERTY OWNER
NOTIFY PRIOR TO CHANGE IN LAND USE
NOTIFY PRIOR TO DEVELOPMENT
PUBLIC OR PRIVATE SCHOOL FOR PERSONS UNDER 21 PROHIBITED
RESIDENCE USE PROHIBITED

Title: Deed Restriction
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?cmd=radocuments&global_id=07720037&enforcement_id=60305766
Date Recorded: 4/24/2017

Future Activities

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: 5 Year Review Reports
Due Date: 2028

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: 5 Year Review Reports
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: 5 Year Review Reports
Due Date: 2023

Completed Activities

Title: 1st Half 2009 Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6020020
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 11/17/2009
Comments:

Title: 2019 LUR Inspection Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60426913
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Land Use Restriction Monitoring Report
Date Completed: 2/26/2021
Comments:

Title: 2nd Half 2010 Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6027644
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 4/20/2011
Comments:

Title: Changes in Project Managers Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426234
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 4/21/2017
Comments: Notification sent 4/21/2017

Title: Cost Estimate Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426931
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/28/2018
Comments: Final 2018 2019 cost estimate.

Title: Cost Estimate Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426932

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 2/6/2020
Comments:

Title: FY 09/10 DTSC Cost Estimate
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=6017413
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 8/31/2009
Comments:

Title: Groundwater Level Evaluation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60318834
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Other Report
Date Completed: 3/29/2013
Comments:

Title: Monitoring Point Installation and Quarterly Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011372
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Remedial Investigation / Feasibility Study
Date Completed: 10/11/1999
Comments:

Title: Potassium Permanganate Treatability Study Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011552
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Treatability Study Report
Date Completed: 6/6/2001
Comments: Completed treatability study using potassium permanganate

Title: Public Notice ESD
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6012431
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 4/12/2007
Comments:

Title: Quarterly Groundwater Monitoring Report for the Period from October 1 through December 31 2004
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60428125
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 1/31/2005
Comments: This report presents results of quarterly groundwater monitoring for the Period from October 1 through December 31, 2004

Title: RAW ESD
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=5017917
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Date Completed: 4/18/2007
Comments: An Explanation of Significant Differences has been signed that modifies the remedy for groundwater from in-situ treatment to continued groundwater monitoring and natural attenuation. The ESD includes the contingency that further in-situ treatment will be performed if the tetrachloroethylene concentration in groundwater exceeds 500 micrograms per liter (µg/l) during two consecutive semi-annual sampling events.

Title: RAW ESD NOE
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60364737
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: CEQA - Notice of Exemption
Date Completed: 8/5/2014
Comments: NOE for the RAW ESD Approval submitted to State Clearinghouse.

Title: Removal Action Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=5017918
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Date Completed: 5/14/2002
Comments: Approved RAW for soil and groundwater cleanup by hot spot excavation and removal, and injection of sodium lactate, a hydrogen releasing compound.

Title: Results of Agency Research and Phase II Soil and Groundwater Sampling and Analysis
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011373
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Remedial Investigation / Feasibility Study
Date Completed: 10/13/1992
Comments:

Title: Semi-Annual Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6012689
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Operation and Maintenance Report
Date Completed: 1/9/2007
Comments:

Title: Voluntary Cleanup Agreement, Amendment No. 1
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=6008706
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Amendment - Order/Agreement
Date Completed: 9/20/2001
Comments: Amended Agreement for site cleanup.

Title: Cost Estimate Review
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60387320
Area Name:
Area Link:
Sub Area:

Sub Area Link:
Document Type: Other Report
Date Completed: 12/19/2014
Comments:

Title: Current Soil Condition Summary Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60314574
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Other Report
Date Completed: 1/31/2013
Comments:

Title: LUR Inspection Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60426910
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Land Use Restriction Monitoring Report
Date Completed: 5/21/2018
Comments:

Title: Letter of Credit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60320598
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Financial Assurance Documentation
Date Completed: 3/7/2014
Comments:

Title: Notice of Exemption - RAW
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=5017916
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: CEQA - Notice of Exemption
Date Completed: 5/7/2002
Comments: Issued NOE

Title: Notice of Public Comment Period on the Draft Removal Action Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011452
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 5/25/2002
Comments: Notice of Public Comment Period on the Draft Removal Action Workplan

Title: Operation and Maintenance Agreement
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=6008351
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Operation & Maintenance Order/Agreement
Date Completed: 11/2/2007
Comments:

Title: Quarterly Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011558
Area Name:
Area Link:

Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 11/22/2002
Comments:

Title: Request to stop Operation and Maintenance Activities
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60330975
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 8/25/2014
Comments:

Title: USEPA Region IX Site Screening
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60314007
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Screening
Date Completed: 11/3/2000
Comments: USEPA determined site is under DTSC lead

Title: 1st Half 2010 Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6027643
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 8/25/2010
Comments:

Title: 2nd Half 2008 Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6019043
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 11/19/2008
Comments: Approved groundwater monitoring report for second half of 2008. The concentrations of PCE in the six monitoring wells that were sampled remained relatively constant.

Title: 2nd Half 2009 Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6021586
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 3/2/2010
Comments:

Title: Certification
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426907
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Certification
Date Completed: 6/27/2017
Comments: Final Draft - Remedial Action Certification Form

Title: Change of Project Manager Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60419365

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 10/27/2016
Comments:

Title: Cost Estimate
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60346046
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Financial Assurance Documentation
Date Completed: 1/8/2014
Comments:

Title: FY1516 Annual Oversight Cost Estimate
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60398865
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 8/26/2015
Comments:

Title: Operation and Maintenance Plan Amendment
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60304344
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Operations and Maintenance Plan Amendment
Date Completed: 2/6/2013
Comments:

Title: Semi-Annual Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011557
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Operation and Maintenance Report
Date Completed: 4/28/2006
Comments:

Title: Semi-Annual Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6012691
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Operation and Maintenance Report
Date Completed: 6/1/2007
Comments:

Title: Semiannual Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60304327
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 1/25/2013
Comments:

Title: Technical Impracticability Evaluation

Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60285207
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 12/20/2011
Comments:

Title: 2018 LUR Inspection Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60426912
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Land Use Restriction Monitoring Report
Date Completed: 2/26/2021
Comments:

Title: Certification
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=5017919
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Certification
Date Completed: 4/9/2008
Comments: Competed DTSC cleanup certification with groundwater monitoring.

Title: Community Profile
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6013429
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Community Profile
Date Completed: 1/30/2002
Comments:

Title: Groundwater Well Decommissioning Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60378232
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Other Report
Date Completed: 9/29/2021
Comments: Final DTSC Letter

Title: NOE Public Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60366230
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 9/5/2014
Comments:

Title: Project Management 2020 - 2021
Title Link:
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Project Management
Date Completed: 6/30/2021
Comments: completed fiscal year

Title: Public Notice-Completion of 5-Year Review
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60426237
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 9/16/2018
Comments:

Title: RAW ESD
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60361110
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan w/ESD
Date Completed: 8/5/2014
Comments:

Title: Semi-annual Ground Water Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60296371
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 7/23/2012
Comments:

Title: USEPA Region IX Preliminary Assessment
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60314013
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Report
Date Completed: 1/25/2001
Comments: no further action planned since the site is capped and property owner entered into a VCA with DTSC

Title: Deed Restriction
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60305766
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Land Use Restriction
Date Completed: 4/24/2017
Comments: The recorded Land Use Covenant restricts extraction of groundwater and certain types development including residential, hospitals, day cares and schools on the basis that contaminants of concern remain in groundwater and/or soil vapor above levels accepted for unrestricted land use.

Title: FY 2012/2013 DTSC Oversight Cost Estimate
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60308087
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 8/30/2012
Comments: done

Title: Public Notice for Five year Review
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60443392
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice

Date Completed: 9/16/2018
Comments:

Title: RAW Fact Sheet
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011451
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fact Sheets
Date Completed: 3/25/2002
Comments: State announces the availability of the Removal Action Workplan

Title: Removal Action Effectiveness Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011006
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Completion Report
Date Completed: 3/4/2005
Comments: Completed removal action effectiveness evaluation

Title: Report of Soil and Groundwater Investigation Findings
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011371
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Remedial Investigation / Feasibility Study
Date Completed: 12/22/1997
Comments:

Title: Request for Signed LUC
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60406643
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 3/8/2016
Comments: DTSC requested that the LUC be signed and submitted by July 1, 2016. Otherwise groundwater monitoring and reporting will likely resume.

Title: Semiannual Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6015663
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 12/21/2007
Comments:

Title: Amendment 2 to VCA
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=6009598
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Amendment - Order/Agreement
Date Completed: 7/17/2006
Comments: Amendment covers format of future submittals.

Title: Change of Project Manager Notice
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60443874
Area Name:
Area Link:
Sub Area:

Sub Area Link:
Document Type: Correspondence
Date Completed: 4/24/2018
Comments: Final - Change of PM Letter

Title: Cost Estimate Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426930
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/21/2017
Comments: COST ESTIMATE COMPLETED AND LETTER SENT.

Title: Five Year Review
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6027993
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: 5 Year Review Reports
Date Completed: 12/18/2012
Comments:

Title: Public Notice for Five Year Review
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6027994
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Public Notice
Date Completed: 12/15/2012
Comments: completed

Title: RA Completion Report/Source Area Remediation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011553
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Completion Report
Date Completed: 10/31/2002
Comments: Removal action completion report for source removal and HRC treatment

Title: VCA Application for SCG Pinole Valley Shopping Center
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60512170
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Application
Date Completed: 11/2/2021
Comments:

Title: Cost Estimate Letter 2021 - 2022
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426934
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/8/2021
Comments:

Title: First Half 2008 Groundwater Monitoring Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6017901
Area Name:
Area Link:

Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 6/26/2008
Comments: First Half 2008 Groundwater Monitoring report approved.

Title: Groundwater Well Decommissioning Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60378183
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Workplan
Date Completed: 2/25/2020
Comments:

Title: Results of Additional Investigation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6011370
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Remedial Investigation / Feasibility Study
Date Completed: 5/27/1999
Comments:

Title: 2020 - 2021 Cost Estimate Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60426933
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/2/2020
Comments:

Title: DTSC Annual Oversight Cost Estimate
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=6013113
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Correspondence
Date Completed: 10/14/2008
Comments: DTSC annual oversight cost estimate to PRPs per HSC 25269.5.

Title: FY2013/2014 Annual Cost Estimate and Schedule
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=60323194
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 9/13/2013
Comments: Cost estimate completed.

Title: Notice of Exemption - ESD
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=6010599
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: CEQA - Notice of Exemption
Date Completed: 4/18/2007
Comments: CEQA Notice of Exemption for the Explanation of Significant Differences that modifies the remedy for groundwater selected in the Final Removal Action Workplan.

Title: Quarterly Groundwater Monitoring Report for the Period from January1 through March 31, 2005
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60428121

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 5/1/2005
Comments: This Report presents the results of quarterly groundwater monitoring performed for the period of January 1 through March 31, 2005.

Title: Remedial Investigation / Feasibility Study
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=5017920
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Remedial Investigation / Feasibility Study
Date Completed: 6/20/2001
Comments: Completed RI/FS

Title: Semiannual Groundwater Monitoring Report for the Period from April 1 through September 30, 2005
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60428119
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Monitoring Report
Date Completed: 10/31/2005
Comments: This report presents results of semiannual groundwater monitoring for the period from April1 through September 30, 2005.

Title: Soil Gas Sampling & Risk Assessment Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=6008161
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Other Report
Date Completed: 5/16/2006
Comments: Completed Soil Vapor Intrusion Risk Assessment

Title: Temporary GW Monitoring Suspension Request
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&doc_id=60271143
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Operations and Maintenance Plan Amendment
Date Completed: 7/21/2011
Comments:

Title: Voluntary Cleanup Agreement
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07720037&enforcement_id=5017921
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 8/17/2000
Comments: Signed Agreement for site investigation.

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List: NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Dec 30, 2021

National Priority List - Proposed: PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Dec 30, 2021

Deleted NPL: DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Dec 30, 2021

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Oct 20, 2021

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Oct 20, 2021

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Nov 17, 2021

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Nov 17, 2021

RCRA Generator List: RCRA LQG

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Nov 17, 2021

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Nov 17, 2021

RCRA Non-Generators: RCRA NON GEN

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Nov 17, 2021

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Feb 23, 2021

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Dec 30, 2021

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jul 26, 2021

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 2, 2020

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Apr 28, 2020

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Oct 20, 2021

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Nov 16, 2021

State

State Response Sites: RESPONSE

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Jan 6, 2022

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Jan 6, 2022

Delisted State Response Sites: DELISTED ENVS

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Jan 6, 2022

Solid Waste Information System (SWIS): SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Nov 2, 2021

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels: SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

Waste Management Unit Database: WMUD

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

EnviroStor Hazardous Waste Facilities: HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Jan 6, 2022

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report: SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers: C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.
Government Publication Date: Jun 20, 2018

Recycling Centers: RECYCLING
This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.
Government Publication Date: Dec 17, 2021

Listing of Certified Processors: PROCESSORS
This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.
Government Publication Date: Dec 20, 2021

Listing of Certified Dropoff, Collection, and Community Service Programs: CONTAINER RECY
This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.
Government Publication Date: Dec 17, 2021

Land Disposal Sites: LDS
Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.
Government Publication Date: Oct 20, 2021

Leaking Underground Fuel Tank Reports: LUST
List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.
Government Publication Date: Jun 22, 2021

Delisted Leaking Storage Tanks: DELISTED LST
List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.
Government Publication Date: Jun 22, 2021

Permitted Underground Storage Tank (UST) in GeoTracker: UST
List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).
Government Publication Date: Oct 17, 2021

Proposed Closure of Underground Storage Tank Cases: UST CLOSURE
List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.
Government Publication Date: May 5, 2021

Historical Hazardous Substance Storage Information Database: HHSS
The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.
Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System: UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).
Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks: AST
A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.
Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks: AST SWRCB
A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).
Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks: TANK OIL GAS
Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).
Government Publication Date: Dec 9, 2021

Delisted Storage Tanks: DELISTED TNK
This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).
Government Publication Date: Jan 13, 2022

California Environmental Reporting System (CERS) Tanks: CERS TANK
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.
Government Publication Date: Dec 8, 2021

Delisted California Environmental Reporting System (CERS) Tanks: DELISTED CTNK
This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.
Government Publication Date: Dec 8, 2021

Historical Hazardous Substance Storage Container Information - Facility Summary: HIST TANK
The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in th 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.
Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions: LUR
The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.
Government Publication Date: Jan 6, 2022

CALSITES Database: CALSITES
This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.
Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions: HLUR

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.
Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions: DEED
List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.
Government Publication Date: Oct 20, 2021

Voluntary Cleanup Program: VCP
List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.
Government Publication Date: Jan 6, 2022

GeoTracker Cleanup Program Sites: CLEANUP SITES
A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.
Government Publication Date: Jun 22, 2021

Delisted County Records: DELISTED COUNTY
Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.
Government Publication Date: Jan 11, 2022

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands: INDIAN LUST
LUSTs on Tribal/Indian Lands in Region 9, which includes California.
Government Publication Date: Apr 8, 2020

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST
USTs on Tribal/Indian Lands in Region 9, which includes California.
Government Publication Date: Apr 8, 2020

Delisted Tribal Leaking Storage Tanks: DELISTED ILST
Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.
Government Publication Date: Apr 14, 2020

Delisted Tribal Underground Storage Tanks: DELISTED IUST
Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.
Government Publication Date: Apr 14, 2020

County

Contra Costa County - CUPA List: CUPA CONTRACO
A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the County of Contra Costa. This list is made available by Contra Costa County which has been certified by CalEPA to implement the Unified program as a CUPA.
Government Publication Date: Dec 8, 2021

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program: TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites: PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Sep 17, 2021

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations https://pfasproject.com/pfas-contamination-site-tr acker/

Government Publication Date: Dec 12, 2019

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Oct 5, 2020

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.
The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).
Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.
The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.
Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.
Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.
Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.
Government Publication Date: Oct 20, 2021

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.
Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.
Government Publication Date: Oct 14, 2021

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.
Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).
Government Publication Date: May 5, 2021

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.
Government Publication Date: May 26, 2021

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.
Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.
Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.
Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.
Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.
Government Publication Date: Nov 2, 2021

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.
Government Publication Date: Dec 18, 2020

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.
Government Publication Date: Mar 15, 2006

Uranium Mill Tailings Radiation Control Act Sites: URANIUM

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Dec 21, 2021

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Apr 13, 2021

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 19, 2020

State

Dry Cleaning Facilities: DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Delisted Drycleaners: DELISTED DRYCLEANERS

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Non-Toxic Dry Cleaning Incentive Program: DRYC GRANT

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Feb 28, 2018

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

List of sites from the State Water Resources Control Board (SWRCB)'s GeoTracker at which one or more of the potential contaminants of concern are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Jun 22, 2021

PFOA/PFOS Groundwater: PFAS GW

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: Oct 22, 2020

Hazardous Waste and Substances Site List - Site Cleanup: HWSS CLEANUP

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: May 20, 2021

Toxic Pit Cleanup Act Sites: TOXIC PITS

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is not longer maintained, and updates are not planned.

Government Publication Date: Jul 1, 1995

List of Hazardous Waste Facilities Subject to Corrective Action: DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement: INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Apr 29, 2021

School Property Evaluation Program Sites: SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Jan 6, 2022

California Hazardous Material Incident Report System (CHMIRS): CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Aug 1, 2021

Historical California Hazardous Material Incident Report System (CHMIRS): HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Hazardous Waste Manifest Data: HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Oct 24, 2016

Historical Hazardous Waste Manifest Data: HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters: HW TRANSPORT

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: Oct 19, 2020

Registered Waste Tire Haulers: WASTE TIRE

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Dec 16, 2020

California Medical Waste Management Program Facility List: MEDICAL WASTE

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Dec 31, 2020

Historical Cortese List: HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders: CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

California Environmental Reporting System (CERS) Hazardous Waste Sites: CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Dec 8, 2021

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites: DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker: GEOTRACKER

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Jun 22, 2021

Mines Listing: MINE

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Dec 17, 2021

Recorded Environmental Cleanup Liens: LIEN

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Dec 15, 2021

Waste Discharge Requirements: WASTE DISCHG

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Oct 20, 2021

Toxic Pollutant Emissions Facilities: EMISSIONS

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

Government Publication Date: Dec 31, 2019

Clandestine Drug Lab Sites: CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Jan 19, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental databases were selected to be included in the search.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX D: QUALIFICATIONS

PARTNER

PARTNER

Álvaro Dominguez
Partner Associate

Education

M.S. in Environmental Science and Management, University of California, Santa Barbara
B.S. in Aquatic Biology, University of California, Santa Barbara

Registrations

Registered Environmental Assessor (REA) I – 30191

Highlights

15+ years of experience conducting Phase I Environmental Site Assessments, Transaction Screen Assessments and subsurface investigations

Experience Summary

Mr. Domínguez has more than 15 years of experience conducting due diligence assessments for a variety of property types and understands the needs and requirements of various reporting standards, including ASTM standards, EPA All Appropriate Inquiry (AAI), and customized client formats. Specifically, Mr. Domínguez has performed Phase I Environmental Site Assessments, Transaction Screen Assessments, and subsurface investigations including soil, soil vapor, sediment and groundwater sampling and analysis.

Mr. Dominguez started his career in the environmental field working for the Alameda County Water District. He was involved in the implementation of a groundwater protection plan and assisted in the review of subsurface investigations. For approximately six years he gained environmental due diligence assessment experience at a nationwide environmental consulting firm. For approximately 10 years, Mr. Dominguez has supported national due diligence firms in completing ESAs.

Mr. Domínguez has extensive experience working with federal and local regulatory agencies, coordinating and managing projects, managing budgets and subcontractors, designing investigation and remediation plans, collecting and summarizing field data, and report writing.

Project Experience

Former Ambassador Laundry Site, City of Emeryville, CA - Prepared and implemented the removal of an underground storage tank (UST) and assessed the site's subsurface conditions (soil, soil vapor, and groundwater). Responsible for characterization and disposal of investigation-generated waste.

Liberty Union High School District, Brentwood, CA - Conducted and managed investigations required to comply with CDE and DTSC regulations for the construction of two high schools in land formerly used for agricultural production. Responsible for writing and implementing the Remedial Action Plans, writing associated reports, characterization and disposal of investigation-generated waste. Both projects received no-further action letters from DTSC.

Menlo Park City School District - Encinal School, Alameda, CA - Assessed presence of naturally occurring asbestos (NOA) and assessed the presence of volatile organic compounds (VOCs) in groundwater at the site. Characterized investigation generated waste and coordinated its appropriate disposal. Obtained no-further action from DTSC.

Álvaro Dominguez

Ettie St. Watershed PCB Abatement, Oakland, CA – Evaluated and lead abatement of potential sources of polychlorinated biphenyl (PCB)-containing sediments within the Ettie Street Pump Station Watershed (ESPSW). Collected sediment samples from the public-right-of-way and private properties to identify potential point sources of PCBs. Prepared and implemented an abatement plan to reduce the load of PCB-containing sediments in the ESPSW. Characterized investigation generated waste and coordinated its appropriate disposal.

Sarah Vosovic
Project Manager

Education

B.S., Environmental Science, California State University, Chico

Training

OSHA 40-Hour HAZWOPER
AHERA Building Inspector training
California Department of Health Services/USEPA Lead Inspector/Assessor

Highlights

More than 17 years of experience in the environmental consulting field
More than 17 years experience in environmental due diligence, NEPA compliance, lead-based paint and asbestos assessment, and LUST monitoring and reporting
Knowledgeable in due diligence reporting standards, including Fannie Mae DUS, Freddie Mac, and HUD
Site assessment experience includes agricultural properties, semiconductor manufacturing facilities, fueling and automobile repair facilities, chemical distribution facilities, landfills, oil well fields, telecommunications sites, and shopping centers with dry cleaning facilities

Experience Summary

Ms. Vosovic has more than 17 years of experience in the environmental consulting field and has worked in various disciplines, including environmental due diligence, NEPA compliance, lead-based paint and asbestos assessment, and LUST monitoring and reporting. Ms. Vosovic has performed, reviewed, and managed thousands of Phase I ESAs. She has also served as senior reviewer for NEPA compliance documents, with thousands of reports reviewed. She has tracked and managed the regulatory compliance for hundreds of microwave sites for a major telecommunications carrier.

Ms. Vosovic is well versed in EPA's All Appropriate Inquiry and ASTM E1527-13. She is knowledgeable in due diligence reporting standards, including Fannie Mae DUS, Freddie Mac, and HUD. Ms. Vosovic has conducted Phase I ESAs on a wide range of properties. Site assessment experience includes agricultural properties, semiconductor manufacturing facilities, fueling and automobile repair facilities, chemical distribution facilities, landfills, oil well fields, telecommunications sites, and shopping centers with dry cleaning facilities. She has scoped projects, mentored field personnel, identified environmental risks, and regularly provides detailed reports within demanding deadlines.

Ms. Vosovic is responsible for conducting all aspects of Phase I Environmental Site Assessments including proposal writing, staffing projects, client liaison, site reconnaissance and record reviews. Ms. Vosovic also provides management and QA/QC review of Phase I ESAs and Transaction Screens, and is focused on providing exemplary client service. Ms. Vosovic is responsible for ensuring consistency and quality of due diligence services and ensuring that client-specific requirements are met, as well as the requirements of ASTM and AAI standards. Ms. Vosovic displays excellent technical writing and editing skills, attention to detail, and excels at providing concise, logical conclusions and recommendations.

Publications

Shopping Centers Today, 2010. Authored article on LEED applications for shopping centers and retail assets.

Contact

mlambson@partneresi.com

Building Sciences

The One, Bel Air, California – Performed Geotechnical/Soils, Engineering, Environmental and Land Surveying for record-setting 74,000 square foot mega-mansion development that listed for $500 million. The highest residential price tag in Los Angeles County history.

Class A Office Campus Acquisition in the San Francisco Bay Area – Performed Property Condition Assessment, MEP+FLS Report, Roof Report, Elevator Report, Structural and Seismic Assessment.

National Bank Branch Locations - ADA Compliance and Accessibility Reviews.

Environmental Assessments

Phase I and Phase II Environmental Site Assessments for a 75-acre aerospace facility in the Northwest U.S.
Over 500 Phase I Environmental Site Assessments for a national fast-food chain
Dry Cleaner Remediation projects in California, Washington, Hawaii, Arizona, Texas, Nevada, and Florida.
Environmental consulting for over 2 million acres of desert land in California, Nevada, and Arizona

Land Surveys

ALTA Surveys for 2400-unit apartment portfolio in the Midwest

Multi-Site Portfolios

113-site office portfolio acquisition for a national REIT
122-site hotel portfolio for a national lending institution
77-site grocery-anchored shopping center portfolio for prominent retail chain
55-site hotel portfolio acquisition for a private investment group
68-site healthcare portfolio acquisition for a national REIT
50-site country club/golf course portfolio acquisition for a private investment group

Energy and Water Efficiency

Energy Efficiency & Water-use consulting for a national property owner that operates and manages 30 retail and office centers on the West Coast and Texas

Affiliations

National Association of Real Estate Investment Trusts (NAREIT)
International Council of Shopping Centers (ICSC)
U.S Green Building Council (USGBC)
Society of Industrial and Office Realtors, San Diego County (SIOR)
National Association of Industrial & Office Parks, Southern California (NAIOP)
San Diego Habitat Conservancy, Board of Directors. 2010 - 2014

Speaking

Bisnow Conference, Panel Moderator, La Jolla, CA, October 2014. Moderated panel on Southern California Real Estate Trends.

Globestreet, ICSC Western States Conference, San Diego, CA May 2013. Video interview regarding retail real estate trends and due diligence.

Project Experience

Served as the primary Project Manager and Phase I Environmental Site Assessment Reviewer for multiple lender and equity clients and for thousands of properties including addressing soil, soil vapor, and/or groundwater contamination concerns, lead-based paint and asbestos-related concerns, evaluation of PCB-containing equipment, review of UST compliance and release cases, management of radon sampling and mitigation activities, and the development of Operations and Maintenance programs.

Provided senior review for thousands of NEPA Screening Reports, Environmental Assessments, Section 106 Reports, SHPO consultation packets, NEPA Audit Reports, and other related documents for various telecommunications industry clients. NEPA Technical Manager for multiple telecommunications industry clients in the western United States. Served as the primary point of contact with multiple state and federal agencies.

Assisted in subsurface investigations at heavily industrialized and commercially developed properties. Subsurface investigations included the installation of soil borings, characterization of soils, and subsequent sampling of soil and groundwater. Oversaw geophysical surveys.

Evaluated proposed microwave installations, LTE installations and underlying support structures for compliance with environmental, FAA, and FCC regulations. Tracked and managed over 700 microwave sites in two markets. Worked closely with the client, construction managers, turf vendors, engineers, and RF safety engineers to obtain and track regulatory compliance documentation.

Managed a database and scheduled quarterly reporting for 45 leaking underground storage tank (LUST) cases under regulatory direction. Prepared Groundwater Monitoring Reports, NPDES Quarterly Reports, Subsurface Investigation Reports, Remediation Work Plans, Sensitive Receptor Surveys, and UST Cleanup Fund submittals. Collected soil and groundwater samples for laboratory analysis.

Performed regulatory compliance audits for a major telecommunications carrier. Provided solutions and established protocols for ensuring compliance.

Speaking

Introductory Geology and Environmental Science, CSU Chico, Chico, California. Laboratory Instructor for Introductory Geology and Environmental Science courses at California State University, Chico.

Contact

svosovic@partneresi.com

PARTNER

Mark Lambson
Principal

Education

Bachelor of Arts Degree, Public Administration & Economics, San Diego State University
Executive MBA Program, 2000-2003

Highlights

Over 25 years of experience in the environmental and engineering consulting industry.
Deep understanding of the Commercial Real Estate business process.
Nationwide capabilities and expertise.
Vast experience in managing and delivering multi-site portfolio projects.

Experience Summary

Mark Lambson is a true veteran of the commercial real estate services industry. He has over 25 years of experience managing and performing environmental and engineering consulting projects on a national level. Mr. Lambson serves as a Principal for PARTNER and is located in PARTNER's San Diego County office. Mr. Lambson's team currently provides client management and consulting to a nationwide client base and specializes in advising "Equity" clients during the acquisition phase of commercial property transactions in the U.S., Mexico, and Canada.

Mr. Lambson has assisted clients on over 25,000 commercial real estate transactions throughout his career. His due diligence resume includes experience at all levels. This includes advising REITs, developers, property managers, retail companies, commercial real estate brokers, mortgage brokers, attorneys, lenders, universities, and real estate investment groups with the following nationwide services:

- Property Condition Assessments (PCAs)
- Individual Building System Inspections for Roof, Mechanical Electrical Plumbing + Fire/Life Safety (MEP+FLS), Elevator, Structure, Façade, Building Technology, and ADA/Accessibility
- Facility Condition Assessments (FCAs)
- Phase I Environmental Site Assessments (ESAs)
- Phase II Subsurface Investigations (Soil, soil-vapor, and groundwater sampling and analysis)
- Phase III Environmental Remediation Services & Cost Estimates
- Asbestos, Lead, Radon, Mold Sampling
- Seismic Risk Assessments and Structural Assessments (Seismic PMLs)
- Energy Audits, Benchmarking, ESG, and LEED-related services
- Hydrology, Water Conservation and Efficiency
- Fannie Mae / Freddie Mac / HUD Due Diligence
- Geotechnical and Soils Reports
- Construction Services (Doc & Cost Review, Progress Monitoring, Funds Control)
- Zoning Reports
- ALTA Surveys

Appendix F

STORMWATER CONTROL PLAN

For

Pinole Mixed Use

1500 Fitzgerald Drive, Pinole, CA

APN 125-551-016

JN 20313
March, 2021

Prepared for:
ROIC California, LLC
11250 El Camino Real, Suite 200
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Preliminary

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Checked By:_____

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Stormwater Control Plan Exhibit

IMP Sizing Calculator Output

Soil Survey

This Stormwater Control Plan was prepared using the template dated February 2018.

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I. PROJECT DATA

Table 1. Project Data

Project Name/Number	Pinole Mixed Use JN 20313
Application Submittal Date	March, 2021
Project Location	1500 Fitzgerald, Pinole, CA
Name of Developer	ROIC California, LLC
Project Phase No.	N/A
Project Type and Description	Mixed Use Residential
Project Watershed	Pinole Creek
Total Project Site Area (acres)	216,564 SF (4.97 acres)
Total Area of Land Disturbed (acres)	216,564 SF (4.97 acres)
Total New Impervious Surface Area (sq. ft.)	0 SF (0 acres)
Total Replaced Impervious Surface Area	195,126 SF (3.65 acres)
Total Pre-Project Impervious Surface Area	210,690 SF (4.84 acres)
Total Post-Project Impervious Surface Area	195,126 SF (3.65 acres)
50% Rule [*]	Applies
Project Density	N/A
Applicable Special Project Categories [Complete even if all treatment is LID]	None
Percent LID and non-LID treatment	100% LID
HM Compliance [†]	Applies

[*50% rule applies if:
Total Replaced Impervious Surface Area > 0.5 x Pre-Project Impervious Surface Area]

[†HM required (unless project meets one of the exemptions on *Guidebook* p. 9) if:
(Total New Impervious Surface Area + Total Replaced Impervious Surface Area) ≥ 1 acre]

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II. SETTING

This project involves the demolition of an existing non-operational K-Mart building, parking lot, and associated hardscape. It proposes to replace the building with three multi-story residential buildings, residential parking, and associated hardscape.

II.A. Project Location and Description

The proposed project is located at 1500 Fitzgerald Drive, Pinole, CA. The project proposes grading and drainage improvements for a proposed residential development.

II.B. Existing Site Features and Conditions

The site is rectangular with generally flat slopes under 10%. It is currently a developed non-opperational K-Mart building, parking lot, and hardscape. The site consists of one soil group, Los Osos Clay Loam (Hydrologic Soil Group "D"). The existing drainage system drains to the south and outfalls in Wildcat Creek.

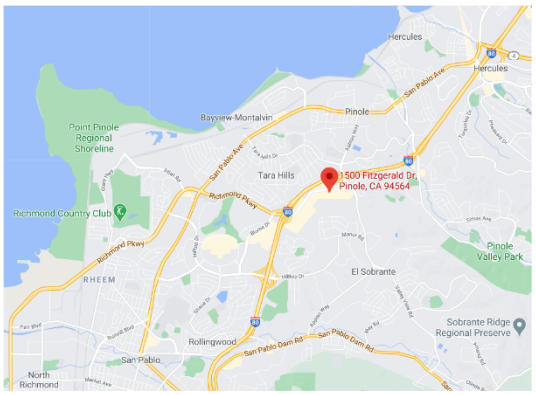

Figure 1: Location of 1500 Fitzgerald Drive, Pinole, CA.

II.C. Opportunities and Constraints for Stormwater Control

This project will replace an existing Kmart building, parking lot, and associated hardscape. The Kmart is currently non-operational. The proposed mix use will be used as a residential building with a parking lot and associated hardscape.

Pursuant to the 50% rule, treatment will be required for the parcel. Several landscape amenities have been identified and will be used as bioretention facilities and treatment areas for the proposed parking improvements.

The following site layout characteristics are incorporated to reduce imperviousness:

- All on-site runoff is directed to designated bioretention facilities.
- Bioretention facilities have been distributed throughout the site to further reduce the total impervious area on-site.

III. LOW IMPACT DEVELOPMENT DESIGN STRATEGIES

III.A. Optimization of Site Layout

III.A.1. Limitation of development envelope

The site is currently highly developed within an urbanized part of Pinole. The proposed improvements will reduce the level of development and the total impervious area.

Figure 2: Existing Site Conditions

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III.A.2. Preservation of natural drainage features

BMP's, such as straw wattles, silt fences, concrete washouts, inlet protection, etc will be used during construction to maintain the preservation of natural drainage features.

III.A.3. Setbacks from creeks, wetlands, and riparian habitats

There are no setbacks to any natural features.

III.A.4. Minimization of imperviousness

Imperviousness in the proposed site has be reduced from existing conditions.

III.B. Use of Permeable Pavements

Permeable Pavers will not be incorporated on this site.

III.C. Dispersal of Runoff to Pervious Areas

All on-site runoff will be directed to bioretention facilities.

III.D. Bioretention or other Integrated Management Practices

Bioretention facilities will be integrated with the site layout to treat and infiltrate runoff, before discharging into Wildcat Creek.

III.E. Hydromodification Requirements

The bioretention facilities will meet the hydromodification requirements through the use of outlet flow control. The orifice diameter at each bioretention outfall is provided in the IMP calculations.

IV. DOCUMENTATION OF DRAINAGE DESIGN

IV.A. Descriptions of each Drainage Management Area

IV.A.1. Table of Drainage Management Areas

DMA Name	*Area (SF)*	*Surface Type/Description*	*DMA Type/Drains to*
DMA-1	*76,414*	*Conventional Rooftop*	*Drainage to IMP-1*
DMA-2	*21,052*	*Conventional Rooftop*	*Drainage to IMP-2*
DMA-3	*26,072*	*Concrete or Asphalt*	*Drainage to IMP-3*
DMA-4	*13,206*	*Concrete or Asphalt*	*Drainage to IMP-4*
DMA-5	*21,495*	*Concrete or Asphalt*	*Drainage to IMP-5*
DMA-6	*36,827*	*Concrete or Asphalt*	*Drainage to IMP-6*

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IV.A.2. Drainage Management Area Descriptions

DMA-1 totaling 76,414 square feet, drains to IMP-1 through downspouts and area drains. IMP-1 has been sized to capture and treat all of DMA-1.

DMA-2, totaling 21,052 square feet, drains to IMP-2 through downspouts and area drains. IMP-2 has been sized to capture and treat all of DMA-2.

DMA-3, totaling 26,072 square feet, drains to IMP-3 through curb opening. IMP-3 has been sized to capture and treat all of DMA-3.

DMA-4, totaling 13,206 square feet, drains to IMP-4 through curb openings. IMP-4 has been sized to capture and treat all of DMA-4.

DMA-5, totaling 21,495 square feet, drains to IMP-5 through curb openings. IMP-5 has been sized to capture and treat all of DMA-5.

DMA-6, totaling 36,827 square feet, drains to IMP-6 through curb openings. IMP-6 has been sized to capture and treat all of DMA-6

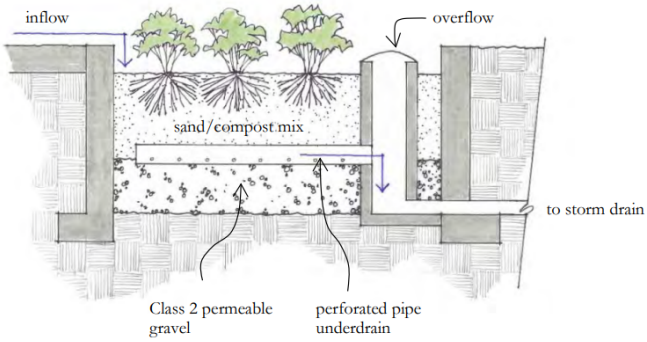
IV.A.3. Self-Treating Areas

There are no Self-Treating areas analyzed for the Preliminary Stormwater Control Plan.

IV.B. Integrated Management Practice Descriptions

Runoff from the paved impervious areas on site will be directed to seven (7) bioretention facilities (See Exhibit)

Each of the facilities will be designed and constructed to the criteria of the *Stormwater C.3 Guidebook 7th* Edition, including the following features:



- Each layer built flat, level, and to the elevations specified in the plans:
  - Bottom of Gravel Layer (BGL)
  - Top of Gravel Layer (TGL)
  - Top of Soil Layer (TSL)
  - Overflow Grate
  - Facility Rim
- 12 inches Class II permeable, Caltrans specification 68-2.02F(3)
- 18 inches sand/ compost mix meeting the specifications approved by the Regional Water Quality Control Board in April 2016.
- 4 in dia. PVC SDR 35 perforated pipe underdrain, installed with the invert at the top of the Class II permeable layer with holes facing down, and connected to the overflow structure at the same elevation.
- 6 to 12-inch deep reservoir between top of soil elevation and overflow grate elevation.
- Concrete drop inlet with frame overflow structure, with grate set to specified elevation, connected to storm drain outfalls at Wildcat Creek or Vale Road.

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- Plantings selected for suitable to climate location, bioretention soil media (well-drained, low fertility), and for water conservation.
- Irrigation system on a separate zone, with drip emitters and "smart" irrigation controllers.
-

Bioretention Facility (IMP-1) will be located within the residential complex and be incorporated with the landscape plan.

Bioretention Facility (IMP-2) will be located in parking area and be incorporated with the landscaping in the planter islands.

Bioretention Facility (IMP-3) will be located in parking area and be incorporated with the landscaping in the planter islands.

Bioretention Facility (IMP-4) will be located in parking area and be incorporated with the landscaping in the planter islands.

Bioretention Facility (IMP-5) will be located in parking area and be incorporated with the landscaping in the planter islands.

Bioretention Facility (IMP-6) will be located in parking area and be incorporated with the landscaping in the planter islands.

V. SOURCE CONTROL MEASURES

V.A. Site activities and potential sources of pollutants

The parking lot improvement project will create few potential sources of stormwater pollutants. Sources to be controlled include:

- Potential dumping of wash-water or other liquids into storm drain inlets.
- Leaks/spills from vehicles
- Landscape/Outdoor Pesticide Use
- Disturbance to Wildcat Creek

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V.B. Source Control Table

Table 3. Sources and Source Control Measures

[See the instructions on page 16 of the Guidebook and the checklist in Appendix D.]

Potential source of runoff pollutants	*Permanent source control BMPs*	*Operational source control BMPs*
On-site dumping into storm drain inlets	All accessible on-site inlets will be marked with the words "No Dumping! Flows to Creek"	Markings will be periodically repainted or replaced. Inlets and pipes conveying stormwater to BMPs will be inspected and maintained as part of BMP Operation and Maintenance Plan.
Landscape/Outdoor Pesticide Use	Landscaping is designed to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.	Landscaping will be maintained using minimum or no pesticides. Efficient irrigation system will be used.
Disturbance to Wildcat Creek	Disturbance to wildcat creek will be minimized to the maximum extent possible. Permanent bio-retention areas will be installed to treat existing and replaced impervious area. There will be no removal of trees along Wildcat Creek.	Inlets and pipes conveying stormwater to BMPs will be inspected and maintained as part of BMP Operation and Maintenance Plan.

V.C. Features, Materials, and Methods of Construction of Source Control BMPs

VI. STORMWATER FACILITY MAINTENANCE

VI.A. Ownership and Responsibility for Maintenance in Perpetuity

All stormwater treatment facilities (bioretention areas) will be owned and maintained by the developer. The applicant accepts responsibility for interim operation and maintenance of the facilities.

VI.B. Summary of Maintenance Requirements for Each Stormwater Facility

Bioretention facilities remove pollutants primarily by filtering runoff slowly through an active layer of soil. Routine maintenance is needed to ensure that flow is unobstructed, that erosion is prevented,

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and that soils are held together by plant roots and are biologically active. Typical routine maintenance consists of the following:

- Inspect outlets for channels, exposure of soils, or other evidence of erosion. Clear any obstructions and remove any accumulation of sediment.
- Inspect inlets for erosion or plugging.
- Inspect side slopes for evidence of instability or erosion and correct as necessary.
- Observe soil at the bottom of filter for uniform percolation throughout. If portions of the swale or filter do not drain within 48 hours after the end of a storm, the soil should be tilled and replanted. Remove any debris or accumulations of sediment.
- Examine the vegetation to ensure that it is healthy and dense enough to provide filtering and to protect soils from erosion. Replenish mulch as necessary, remove fallen leaves and debris, prune large shrubs or trees, and mow turf areas. Confirm that irrigation is adequate and not excessive. Replace dead plants and remove invasive vegetation.
- Abate any potential vectors by filling holes in the ground, in and around the swale and by ensuring that there are no areas where water stands longer than 48 hours following a storm. If mosquito larvae are present and persistent, contact the Contra Costa County Vector Control District for information and advice. Mosquito larvicides should be applied only when absolutely necessary and then only by a licensed individual or contractor.

VII. CONSTRUCTION PLAN C.3 CHECKLIST

Table 3. Construction Plan C.3 Checklist

Stormwater Control Plan Page #	*BMP Description*	*See Plan Sheet #s*
1	Bioretention Facilities sized as specified and designed to capture and route drainage from the areas delignated on Exhibit.	C1.0 & C1.1

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VIII. CERTIFICATIONS

The selection, sizing, and preliminary design of stormwater treatment and other control measures in this plan meet the requirements of Regional Water Quality Control Board Order R2-2015-0049.

By

Print Name

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Stormwater Control Plan

Exhibit

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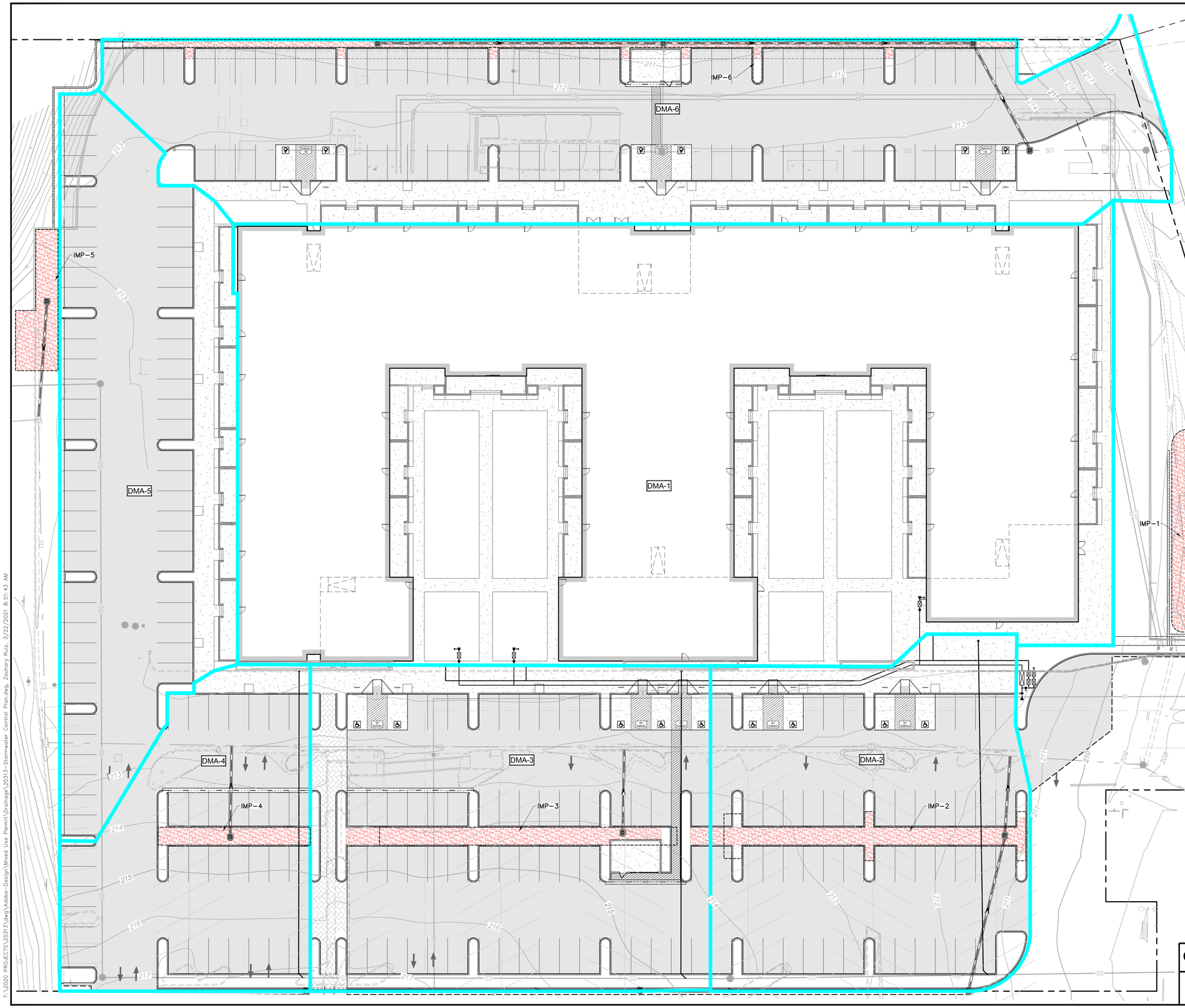

NOTE:

REFER TO SUBMITTED GRADING & DRAINAGE PLANS FOR INVERTS, FLOW LINES, TOP OF GRATE ELEVATIONS AND DRAINAGE SPECIFICATIONS

EXISTING UNDERGROUND UTILITIES ARE PRESENT IN THE PROJECT AREA. CONTRACTOR TO USE SUFFICIENT CAUTION DURING EXCAVATION OF NEW FOOTINGS TO MINIMIZE POSSIBILITY OF DAMAGING EXISTING SERVICES

THIS MAP IS FOR REFERENCE ONLY

DRAINAGE AREA TABLE		BIORETENTION FACILITIES	REQUIRED	DESIGN
DMA-1 TOTAL	= 79,414 SF	IMP-1 TREATMENT AREA (SF)	3,177	3,200
		SURFACE VOL. (FT^3)	2,337	2,400
		SUBSURFACE VOL. (FT^3)	3,061	3,100
DMA-2 TOTAL	= 21,052 SF	IMP-2 TREATMENT AREA (SF)	842	850
		SURFACE VOL. (FT^3)	620	650
		SUBSURFACE VOL. (FT^3)	811	815
DMA-3 TOTAL	= 26,072 SF	IMP-3 TREATMENT AREA (SF)	1,064	1,064
		SURFACE VOL. (FT^3)	767	770
		SUBSURFACE VOL. (FT^3)	1,005	1,010
DMA-4 TOTAL	= 13,206 SF	IMP-4 TREATMENT AREA (SF)	528	544
		SURFACE VOL. (FT^3)	389	400
		SUBSURFACE VOL. (FT^3)	509	510
DMA-5 TOTAL	= 21,495 SF	IMP-5 TREATMENT AREA (SF)	860	874
		SURFACE VOL. (FT^3)	633	635
		SUBSURFACE VOL. (FT^3)	829	830
DMA-6 TOTAL	= 36,872 SF	IMP-6 TREATMENT AREA (SF)	1,473	1,525
		SURFACE VOL. (FT^3)	1,0841	1,100
		SUBSURFACE VOL. (FT^3)	1,419	1,420

DRAINAGE AREA LEGEND

- DMA-1 — DRAINAGE AREA
- 1 — POINT OF CONCENTRATION
- DRAINAGE AREA BOUNDARY
- PROPOSED BIORETENTION AREA
- PROPERTY LINE (P.L.)
- LINE OF ANALYSIS
- DIRECTION OF FLOW

20' 10' 0 10' 20' 40' 60'

Graphic Scale: 1" = 20'

March 22, 2021

C.3 STORMWATER CONTROL PLAN

Pinole Mixed Use Housing
Address, City, CA
APN xxx-xxx-xxx

adobe associates, inc.
civil engineering | land surveying | wastewater
1220 N. Dutton Ave., Santa Rosa, CA 95401
P. (707) 541-2300 F. (707) 541-2301
Website: www.adobeinc.com
"A Service You Can Count On!"

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T:\2020 PROJECTS\20313\dwg\Adobe-Design\Mixed Use Permit\Drainage\20313-Stormwater Control Plan.dwg, Zachary Ruiz, 3/22/2021 8:51:43 AM

IMP Sizing Calculator Output

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Project Name: 20313-Pinole Housing
Project Type: Treatment and Flow Control
APN: 125-551-016
Drainage Area: 203,561
Mean Annual Precipitation: 27.0

IV. Areas Draining to IMPs

IMP Name: IMP1
IMP Type: Bioretention Facility
Soil Group: IMP1

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA1	79,414	Conventional Roof	1.00	79,414
			Total	79,414

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	0.701	3,177*	3,200
Surface Volume	0.042	0.701	2,337	2,400
Subsurface Volume	0.055	0.701	3,061	3,100
Maximum Underdrain Flow (cfs)				0.21
Orifice Diameter (in)				3.07

* The product of the IMP Sizing Factor and the Rainfall Adjument Factor was less than the minimum value of 0.04. The value of 0.04 was used to adjust the area instead.

IMP Name: IMP2
IMP Type: Bioretention Facility
Soil Group: IMP2

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA2	21,052	Concrete or Asphalt	1.00	21,052
			Total	21,052

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	0.701	842*	850
Surface Volume	0.042	0.701	620	650
Subsurface Volume	0.055	0.701	811	815
Maximum Underdrain Flow (cfs)				0.06
Orifice				1.58

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Diameter (in)	

* The product of the IMP Sizing Factor and the Rainfall Adjument Factor was less than the minimum value of 0.04. The value of 0.04 was used to adjust the area instead.

IMP Name: IMP3
IMP Type: Bioretention Facility
Soil Group: IMP3

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA3	26,072	Concrete or Asphalt	1.00	26,072
			Total	26,072

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	0.701	1,043*	1,064
Surface Volume	0.042	0.701	767	770
Subsurface Volume	0.055	0.701	1,005	1,010
			Maximum Underdrain Flow (cfs)	0.07
			Orifice Diameter (in)	1.76

* The product of the IMP Sizing Factor and the Rainfall Adjument Factor was less than the minimum value of 0.04. The value of 0.04 was used to adjust the area instead.

IMP Name: IMP4
IMP Type: Bioretention Facility
Soil Group: IMP4

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA4	13,206	Concrete or Asphalt	1.00	13,206
			Total	13,206

IMP Sizing	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	0.701	528*	544
Surface Volume	0.042	0.701	389	400
Subsurface Volume	0.055	0.701	509	510
			Maximum Underdrain Flow (cfs)	0.04
			Orifice Diameter (in)	1.25

* The product of the IMP Sizing Factor and the Rainfall Adjument Factor was less than the minimum value of 0.04. The value of 0.04 was used to adjust the area instead.

IMP Name: IMP5
IMP Type: Bioretention Facility

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Soil Group: IMP5

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA5	21,495	Concrete or Asphalt	1.00	21,495
			Total	21,495

IMP Sizing

	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	0.701	860*	874
Surface Volume	0.042	0.701	633	635
Subsurface Volume	0.055	0.701	829	830
Maximum Underdrain Flow (cfs)				0.06
Orifice Diameter (in)				1.60

* The product of the IMP Sizing Factor and the Rainfall Adjument Factor was less than the minimum value of 0.04. The value of 0.04 was used to adjust the area instead.

IMP Name: IMP6
IMP Type: Bioretention Facility
Soil Group: IMP6

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor
DMA6	36,827	Concrete or Asphalt	1.00	36,827
			Total	36,827

IMP Sizing

	IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
Area	0.050	0.701	1,473*	1,525
Surface Volume	0.042	0.701	1,084	1,100
Subsurface Volume	0.055	0.701	1,419	1,420
Maximum Underdrain Flow (cfs)				0.10
Orifice Diameter (in)				2.09

* The product of the IMP Sizing Factor and the Rainfall Adjument Factor was less than the minimum value of 0.04. The value of 0.04 was used to adjust the area instead.

Report generated on 3/22/2021 12:00:00 AM by the Contra Costa Clean Water Program IMP Sizing Tool software (version 1.3.1.0).

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Soil Survey

PL21-0035 / DR21-12 R1 REVIEW

Soil Map—Contra Costa County, California

Map Scale: 1:1,200 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

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MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Contra Costa County, California
Survey Area Data: Version 17, May 29, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 1, 2019—May 31, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LhE	Los Osos clay loam, 15 to 30 percent slopes	6.3	100.0%
Totals for Area of Interest		**6.3**	**100.0%**

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Contra Costa County, California

LhE—Los Osos clay loam, 15 to 30 percent slopes

Map Unit Setting

National map unit symbol: 2yrgk
Elevation: 50 to 1,420 feet
Mean annual precipitation: 17 to 29 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 284 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Los osos and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Los Osos

Setting

Landform: Hills, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

A - 0 to 10 inches: clay loam
Bt1 - 10 to 20 inches: clay
Bt2 - 20 to 32 inches: clay
Cr - 32 to 42 inches: bedrock

Properties and qualities

Slope: 15 to 30 percent
Depth to restrictive feature: 24 to 40 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e

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Hydrologic Soil Group: D
Ecological site: R015XD035CA - STEEP FINE LOAMY
Hydric soil rating: No

Minor Components

Alo

Percent of map unit: 4 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Gaviota

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Lodo

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Millsholm

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Diablo

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Los gatos

Percent of map unit: 1 percent
Landform: Hills

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Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

San benito

Percent of map unit: 1 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Tierra

Percent of map unit: 1 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Data Source Information

Soil Survey Area: Contra Costa County, California
Survey Area Data: Version 17, May 29, 2020

PL21-0035 / DR21-12 R1 REVIEW

Appendix G

1500 FITZGERLAD DRIVE RESIDENTIAL DEVELOPMENT NOISE AND VIBRATION ASSESSMENT

Pinole, California

October 25, 2021

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INTRODUCTION

The project proposes the demolition of an existing vacant retail structure and the construction of a new housing development with 223 dwelling units at 1500 Fitzgerald Drive in Pinole, California. This report evaluates the project's potential to result in significant impacts with respect to applicable California Environmental Quality Act (CEQA) guidelines. The report is divided into three sections: 1) the Setting Section provides a brief description of the fundamentals of environmental noise and groundborne vibration, summarizes applicable regulatory criteria, and discusses ambient noise conditions in the project vicinity; 2) the Plan Consistency Analysis section discusses noise and land use compatibility utilizing policies in the City's General Plan; and, 3) the Impacts and Mitigation Measures Section describes the significance criteria used to evaluate project impacts, provides a discussion of each project impact, and presents mitigation measures, where necessary, to mitigate project impacts to a less-than-significant level.

SETTING

Fundamentals of Environmental Noise

Noise may be defined as unwanted sound. Noise is usually objectionable because it is disturbing or annoying. The objectionable nature of sound could be caused by its *pitch* or its *loudness*. *Pitch* is the height or depth of a tone or sound, depending on the relative rapidity (*frequency*) of the vibrations by which it is produced. Higher pitched signals sound louder to humans than sounds with a lower pitch. *Loudness* is intensity of sound waves combined with the reception characteristics of the ear. Intensity may be compared with the height of an ocean wave in that it is a measure of the amplitude of the sound wave.

In addition to the concepts of pitch and loudness, there are several noise measurement scales which are used to describe noise in a particular location. A *decibel (dB)* is a unit of measurement which indicates the relative amplitude of a sound. The zero on the decibel scale is based on the lowest sound level that the healthy, unimpaired human ear can detect. Sound levels in decibels are calculated on a logarithmic basis. An increase of 10 decibels represents a ten-fold increase in acoustic energy, while 20 decibels is 100 times more intense, 30 decibels is 1,000 times more intense, etc. There is a relationship between the subjective noisiness or loudness of a sound and its intensity. Each 10 decibel increase in sound level is perceived as approximately a doubling of loudness over a fairly wide range of intensities. Technical terms are defined in Table 1.

There are several methods of characterizing sound. The most common in California is the *A-weighted sound level (dBA)*. This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. Representative outdoor and indoor noise levels in units of dBA are shown in Table 2. Because sound levels can vary markedly over a short period of time, a method for describing either the average character of the sound or the statistical behavior of the variations must be utilized. Most commonly, environmental sounds are described in terms of an average level that has the same acoustical energy as the summation of all the time-varying events. This *energy-equivalent sound/noise descriptor* is called L_{eq}. The most common averaging period is hourly, but L_{eq} can describe any series of noise events of arbitrary duration.

The scientific instrument used to measure noise is the sound level meter. Sound level meters can accurately measure environmental noise levels to within about plus or minus 1 dBA. Various computer models are used to predict environmental noise levels from sources, such as roadways and airports. The accuracy of the predicted models depends upon the distance the receptor is from the noise source. Close to the noise source, the models are accurate to within about plus or minus 1 to 2 dBA.

Since the sensitivity to noise increases during the evening and at night -- because excessive noise interferes with the ability to sleep -- 24-hour descriptors have been developed that incorporate artificial noise penalties added to quiet-time noise events. The *Community Noise Equivalent Level* (*CNEL*) is a measure of the cumulative noise exposure in a community, with a 5 dB penalty added to evening (7:00 p.m. to 10:00 p.m.) and a 10 dB addition to nocturnal (10:00 p.m. to 7:00 a.m.) noise levels. The *Day/Night Average Sound Level* (*DNL* or L_{dn}) is essentially the same as CNEL, with the exception that the evening time period is dropped and all occurrences during this three-hour period are grouped into the daytime period.

Effects of Noise

Sleep and Speech Interference

The thresholds for speech interference indoors are about 45 dBA if the noise is steady and above 55 dBA if the noise is fluctuating. Outdoors the thresholds are about 15 dBA higher. Steady noises of sufficient intensity (above 35 dBA) and fluctuating noise levels above about 45 dBA have been shown to affect sleep. Interior residential standards for multi-family dwellings are set by the State of California at 45 dBA DNL. Typically, the highest steady traffic noise level during the daytime is about equal to the DNL and nighttime levels are 10 dBA lower. The standard is designed for sleep and speech protection and most jurisdictions apply the same criterion for all residential uses. Typical structural attenuation is 12 to 17 dBA with open windows. With closed windows in good condition, the noise attenuation factor is around 20 dBA for an older structure and 25 dBA for a newer dwelling. Sleep and speech interference is therefore possible when exterior noise levels are about 57 to 62 dBA DNL with open windows and 65 to 70 dBA DNL if the windows are closed. Levels of 55 to 60 dBA are common along collector streets and secondary arterials, while 65 to 70 dBA is a typical value for a primary/major arterial. Levels of 75 to 80 dBA are normal noise levels at the first row of development outside a freeway right-of-way. In order to achieve an acceptable interior noise environment, bedrooms facing secondary roadways need to be able to have their windows closed, those facing major roadways and freeways typically need special glass windows.

Annoyance

Attitude surveys are used for measuring the annoyance felt in a community for noises intruding into homes or affecting outdoor activity areas. In these surveys, it was determined that the causes for annoyance include interference with speech, radio and television, house vibrations, and interference with sleep and rest. The DNL as a measure of noise has been found to provide a valid correlation of noise level and the percentage of people annoyed. People have been asked to judge the annoyance caused by aircraft noise and ground transportation noise. There continues to be disagreement about the relative annoyance of these different sources. When measuring the

percentage of the population highly annoyed, the threshold for ground vehicle noise is about 50 dBA DNL. At a DNL of about 60 dBA, approximately 12 percent of the population is highly annoyed. When the DNL increases to 70 dBA, the percentage of the population highly annoyed increases to about 25 to 30 percent of the population. There is, therefore, an increase of about 2 percent per dBA between a DNL of 60 to 70 dBA. Between a DNL of 70 to 80 dBA, each decibel increase increases by about 3 percent the percentage of the population highly annoyed. People appear to respond more adversely to aircraft noise. When the DNL is 60 dBA, approximately 30 to 35 percent of the population is believed to be highly annoyed. Each decibel increase to 70 dBA adds about 3 percentage points to the number of people highly annoyed. Above 70 dBA, each decibel increase results in about a 4 percent increase in the percentage of the population highly annoyed.

TABLE 1 Definition of Acoustical Terms Used in this Report

Term	Definition
Decibel, dB	A unit describing, the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20 micro Pascals.
Sound Pressure Level	Sound pressure is the sound force per unit area, usually expressed in micro Pascals (or 20 micro Newtons per square meter), where 1 Pascal is the pressure resulting from a force of 1 Newton exerted over an area of 1 square meter. The sound pressure level is expressed in decibels as 20 times the logarithm to the base 10 of the ratio between the pressures exerted by the sound to a reference sound pressure (e. g., 20 micro Pascals). Sound pressure level is the quantity that is directly measured by a sound level meter.
Frequency, Hz	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 Hz and 20,000 Hz. Infrasonic sound are below 20 Hz and Ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level, dBA	The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level, L_{eq}	The average A-weighted noise level during the measurement period.
L_{max}, L_{min}	The maximum and minimum A-weighted noise level during the measurement period.
L_{01}, L_{10}, L_{50}, L_{90}	The A-weighted noise levels that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period.
Day/Night Noise Level, L_{dn} or DNL	The average A-weighted noise level during a 24-hour day, obtained after addition of 10 decibels to levels measured in the night between 10:00 pm and 7:00 am.
Community Noise Equivalent Level, CNEL	The average A-weighted noise level during a 24-hour day, obtained after addition of 5 decibels in the evening from 7:00 pm to 10:00 pm and after addition of 10 decibels to sound levels measured in the night between 10:00 pm and 7:00 am.
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive	That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level.

Source: Handbook of Acoustical Measurements and Noise Control, Harris, 1998.

TABLE 2 Typical Noise Levels in the Environment

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110 dBA	Rock band
Jet fly-over at 1,000 feet		
	100 dBA	
Gas lawn mower at 3 feet		
	90 dBA	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	80 dBA	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	70 dBA	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	60 dBA	
		Large business office
Quiet urban daytime	50 dBA	Dishwasher in next room
Quiet urban nighttime	40 dBA	Theater, large conference room
Quiet suburban nighttime		
	30 dBA	Library
Quiet rural nighttime		Bedroom at night, concert hall (background)
	20 dBA	
		Broadcast/recording studio
	10 dBA	
	0 dBA	

Source: Technical Noise Supplement (TeNS), California Department of Transportation, September 2013.

Fundamentals of Groundborne Vibration

Ground vibration consists of rapidly fluctuating motions or waves with an average motion of zero. Several different methods are typically used to quantify vibration amplitude. One method is the Peak Particle Velocity (PPV). The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. In this report, a PPV descriptor with units of mm/sec or in/sec is used to evaluate construction generated vibration for building damage and human complaints. Table 3 displays the reactions of people and the effects on buildings that continuous or frequent intermittent vibration levels produce. The guidelines in Table 3 represent syntheses of vibration criteria for human response and potential damage to buildings resulting from construction vibration.

Construction activities can cause vibration that varies in intensity depending on several factors. The use of pile driving and vibratory compaction equipment typically generates the highest construction related groundborne vibration levels. Because of the impulsive nature of such activities, the use of the PPV descriptor has been routinely used to measure and assess groundborne vibration and almost exclusively to assess the potential of vibration to cause damage and the degree of annoyance for humans.

The two primary concerns with construction-induced vibration, the potential to damage a structure and the potential to interfere with the enjoyment of life, are evaluated against different vibration limits. Human perception to vibration varies with the individual and is a function of physical setting and the type of vibration. Persons exposed to elevated ambient vibration levels, such as people in an urban environment, may tolerate a higher vibration level.

Structural damage can be classified as cosmetic only, such as paint flaking or minimal extension of cracks in building surfaces; minor, including limited surface cracking; or major, that may threaten the structural integrity of the building. Safe vibration limits that can be applied to assess the potential for damaging a structure vary by researcher. The damage criteria presented in Table 3 include several categories for ancient, fragile, and historic structures, the types of structures most at risk to damage. Most buildings are included within the categories ranging from “Historic and some old buildings” to “Modern industrial/commercial buildings”. Construction-induced vibration that can be detrimental to the building is very rare and has only been observed in instances where the structure is at a high state of disrepair and the construction activity occurs immediately adjacent to the structure.

The annoyance levels shown in Table 3 should be interpreted with care since vibration may be found to be annoying at lower levels than those shown, depending on the level of activity or the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying. Low-level vibrations frequently cause irritating secondary vibration, such as a slight rattling of windows, doors, or stacked dishes. The rattling sound can give rise to exaggerated vibration complaints, even though there is very little risk of actual structural damage.

TABLE 3 Reaction of People and Damage to Buildings from Continuous or Frequent Intermittent Vibration Levels

Velocity Level, PPV (in/sec)	Human Reaction	Effect on Buildings
0.01	Barely perceptible	No effect
0.04	Distinctly perceptible	Vibration unlikely to cause damage of any type to any structure
0.08	Distinctly perceptible to strongly perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
0.1	Strongly perceptible	Threshold at which there is a risk of damage to fragile buildings with no risk of damage to most buildings
0.25	Strongly perceptible to severe	Threshold at which there is a risk of damage to historic and some old buildings.
0.3	Strongly perceptible to severe	Threshold at which there is a risk of damage to older residential structures
0.5	Severe - Vibrations considered unpleasant	Threshold at which there is a risk of damage to new residential and modern commercial/industrial structures

Source: Transportation and Construction Vibration Guidance Manual, California Department of Transportation, April 2020.

Regulatory Background

The State of California and the City of Pinole have established regulatory criteria that are applicable in this assessment. The State of California CEQA Guidelines, Appendix G, are used to assess the potential significance of impacts pursuant to local General Plan policies, Municipal Code standards, or the applicable standards of other agencies. A summary of the applicable regulatory criteria is provided below.

State CEQA Guidelines. The CEQA contains guidelines to evaluate the significance of effects of environmental noise attributable to a proposed project. Under CEQA, noise impacts would be considered significant if the project would result in:

(a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;

(b) Generation of excessive groundborne vibration or groundborne noise levels;

(c) For a project located within the vicinity of a private airstrip or an airport land use plan or where such a plan has not been adopted within two miles of a public airport or public use airport, if the project would expose people residing or working in the project area to excessive noise levels.

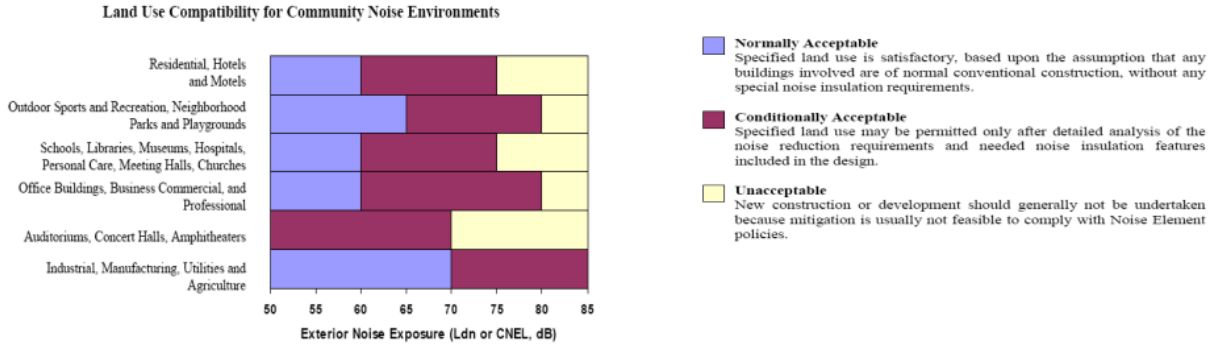
Checklist items (a) and (b) are applicable to the proposed project. The project is not located within the vicinity of a private airstrip or a public airport and would not expose people residing or working

in the project area to excessive aircraft noise levels; therefore, item (c) is not carried further in this analysis.

Pinole General Plan Update 2010. The City of Pinole General Plan Health and Safety Element sets forth goals, policies, and actions related to noise in the community as follows:

GOAL HS.8 Ensure all new development complies with the noise standards established in the Pinole Health and Safety Element and prevent all new noise sources from increasing the existing noise levels above acceptable standards.

POLICY HS.8.1 New development projects should meet acceptable exterior noise level standards. The normally acceptable noise standards for new land uses are established in Land Use Compatibility for Community Exterior Noise Environments (as shown below).



Action HS.8.1.1 Adopt a noise ordinance with noise level performance standards, including maximum allowable noise exposure, ambient versus nuisance noise, method of measuring noise, and enforcement procedures.

Action HS.8.1.2 Review development proposals to assure consistency with noise standards. Require new development of noise-creating uses to conform to the City's noise level standards.

Action HS.8.1.3 Require a combination of design features to reduce noise impacts on adjacent properties through the following and other means, as appropriate:

- Screen and control noise sources such as parking, outdoor activities and mechanical equipment.
- Increase setbacks for noise sources from adjacent dwellings.
- Modify building designs and site planning to reduce noise exposure through a combination of sound attenuation (e.g., sound-rated windows and ventilation systems, insulation, physical and landscape buffers) and site planning (e.g., increased separation and private open area buffers) to reduce noise exposure.
- Control hours of operation, including deliveries and trash pickup, to minimize noise impacts.

• Require additional landscaping to assist with buffering where feasible.

Action HS.8.1.4 New development of noise-sensitive land uses will not be permitted in areas exposed to existing or planned transportation noise sources that exceed the levels specified in Policy HS.8.1, unless the project design includes measures to reduce exterior and interior noise levels to those specified in Policy HS.8.1 of the proposed General Plan Update.

Action HS.8.1.5 Require the use of temporary construction noise control measures including the use of temporary noise barriers, temporary relocation of noise-sensitive land uses, or other appropriate measures as mitigation for noise generated during construction of public and/or private projects.

POLICY HS.8.2 Ensure that proposed nonresidential land uses likely to exceed the City's standards do not create noise disturbances in existing noise-sensitive areas.

Action HS.8.2.1 Require an acoustical analysis as part of the environmental review process when noise-sensitive land uses are proposed in areas where current or projected exterior noise levels exceed the City's standards.

Action HS.8.2.2 Require that any potential noise impacts identified during the acoustical analysis be mitigated in the project design to the maximum extent feasible.

Action HS.8.2.3 Prepare and periodically update a map of citywide noise-sensitive areas.

POLICY HS.8.3 Work with the railroads and adjoining communities to seek quiet zone status for rail lines through Pinole.

POLICY HS.8.4 Require site-specific noise studies for noise-sensitive projects which may be affected by railroad noise, and incorporate noise attenuation measures into the project design to reduce any impacts.

GOAL HS.9 Eliminate or reduce noise from existing objectionable noise sources.

POLICY HS.9.1 Noise created by commercial or industrial sources associated with new projects or developments should be controlled so as not to exceed the noise level standards set forth in the table below (Maximum Allowable Noise Exposure for Stationary Noise Sources), as measured at any affected residential land use.

Action HS.9.1.1 Adopt the following allowable noise standards:

Maximum Allowable Noise Exposure for Stationary Noise Sources[1]

	Daytime [5] (7 AM to 10 PM)	Nighttime [2, 5] (10 PM to 7 AM)
Hourly L_{eq}, dB [3]	55	45
Maximum Level, dB [3]	70	65
Maximum Level, dB – Impulsive Noise [4]	65	60

1. *As determined at the property line of the receiving land use. When determining effectiveness of noise mitigation measures, the standards may be applied on the receptor side of noise barriers or other property line noise mitigation measures.*
2. *Applies only where the receiving land use operates or is occupied during nighttime hours.*
3. *Sound level measurements shall be made with "slow" meter response.*
4. *Sound level measurements shall be made with "fast" meter response.*
5. *Allowable levels shall be raised to the ambient noise levels where the ambient levels exceed the allowable levels. Allowable levels shall be reduced 5 dB if the ambient hourly Leq is at least 10 dB lower than the allowable level.*

POLICY HS.9.2 Require new noise sources to use best available control technology (BACT) to minimize noise emissions.

Action HS.9.2.1 Noise control techniques used should be what most effectively mitigates the noise impacts of the development. Such measures may include building setbacks, building orientation and noise barriers. If a noise barrier is required for mitigation of exterior noise levels, it should be constructed of tight-fitting, massive materials (1-inch-thick wood, stucco, masonry, etc.) and should be of sufficient height to interrupt line of sight between the source and receiver. Line of sight should be determined by drawing a straight line between the effective heights of the noise source and receiver.

POLICY HS.9.3 Work with the railroad companies to reduce existing rail noise in Pinole.

Action HS.9.3.1 Establish a quiet zone designation at the railroad crossings in Pinole. Work with railroad companies to determine and install required safety devices to acquire the designation.

City of Pinole Municipal Code. City of Pinole Municipal Code standards relevant to the proposed project are outlined in Chapters 8 and 15 of the Municipal Code.

8.35.010 FINDINGS AND PURPOSE.

The city council declares that certain loud noises are detrimental to the health and welfare of the citizenry and should be regulated in the public interest. The purpose of this chapter is to limit and control excessive, unnecessary, annoying and unreasonable noises within the city in order to protect the peace, health, safety and welfare of the citizens of Pinole.
(Ord. 2017-05 § 2 (part), 2017)

8.35.020 DEFINITIONS.

A. ***COMMERCIAL PURPOSE.*** The use, operation, or maintenance of sound-amplifying equipment for the purpose of advertising business, goods and services, or for the purpose of attracting the attention of the public to, or advertising for, or soliciting patronage to or for a performance, show, entertainment, exhibition or event, or for the purpose of demonstrating any such sound equipment.

B. ***EMERGENCY.*** Conditions posing an imminent danger to the public health or safety of any individual.

C. ***SOUND-AMPLIFYING EQUIPMENT.*** Any machine or device for the amplification of the human voice, music, or any other sound, excluding a warning device on authorized emergency vehicle or horn or other warning device used for traffic safety purposes.
(Ord. 2017-05 § 2 (part), 2017)

8.35.030 GENERAL NOISE REGULATIONS.

A. It is unlawful for a person to willfully make a loud, unnecessary or unusual noise which disturbs the peace or quiet of a neighborhood or which causes discomfort or annoyance to a reasonable person of normal sensitiveness residing in the area.

B. The factors which shall be considered in determining whether a violation of this section exist shall include, but are not limited to, the following:

1. The sound level of the objectionable noise when compared to all audible noise in the area;
2. Whether the nature of the noise is usual or unusual;
3. The proximity of the noise to residential sleeping areas;
4. The nature and zoning of the area from which the noise emanates;
5. The density of the inhabitation of the area from which the noise emanates;
6. The time of day or night the noise occurs;
7. The duration of the noise;
8. Whether the noise is continuous, recurrent or intermittent;
9. Whether the noise is produced by a commercial or noncommercial activity;
10. Whether the noise is caused by sound amplifying equipment.

(Ord. 2017-05 § 2 (part), 2017)

8.35.040 USE PERMIT.

A. Use permit. The city may grant a use permit allowing noise generating events or land uses on a temporary basis as described in Chapter 17.12 of the Zoning Code. Noise generating use permits shall be of as short duration as reasonable. An application for a permit must be submitted at least ten business days before the proposed activity and must be accompanied by an application fee in the amount set by city council resolution.

B. Emergencies. This chapter shall not apply to emergencies.
(Ord. 2017-05 § 2 (part), 2017)

8.35.050 PENALTIES.

A. Violation an infraction. A person who violates a provision of this section is guilty of an infraction and subject to the penalty set forth in Chapter 1.12 of this code.

B. Violation a nuisance. In addition to the penalties herein provided, any condition caused, maintained or permitted to exist in violation of any of the provisions of this chapter is a threat to the public health, safety and welfare, and is declared and deemed a public nuisance and shall be punishable as such as provided by this code and applicable law.
(Ord. 2017-05 § 2 (part), 2017)

15.02.070 PERMITTED HOURS AND CONDITION OF CONSTRUCTION; PENALTIES.

A. Work is allowed from seven a.m. (7:00 a.m.) to five p.m. (5:00 p.m.) on non-federal holidays. Work is allowed on holidays recognized by the City of Pinole, but not acknowledged federally which include Cesar Chavez's Birthday and the Day After Thanksgiving, but no inspections will be performed.

B. Saturday work is allowed in commercial zones only, from nine a.m. (9:00 a.m.) to six p.m. (6:00 p.m.), as long as it is interior work and does not generate significant noise.

C. Exceptions for residential property owners.

1. Homeowners performing additions, repairs, or remodeling are allowed to work on their residences on weekends and holidays between nine a.m. (9:00 a.m.) and five p.m. (5:00 p.m.).

2. By written authorization of the Building Official, a residential property owner with a valid permit to construct a single-family residence for personal occupancy shall be allowed to work on weekends and holidays between nine a.m. (9:00 a.m.) and five p.m. (5:00 p.m.). This authorization shall be granted to applicants who have not built a residence in the City in the previous five (5) year period and who affirm in writing their intention to reside at the subject property.

D. Exceptions for commercial construction. The City Council designates the City Manager (or his/her designee) to further modify on a case-by-case basis the hours of construction in commercial zones. Additionally, the City Manager (or his/her designee) has the ability to modify the construction hours on a case-by-case basis based on inclement weather conditions or certain construction procedures (such as setting up for a concrete pour) and construction project characteristics that may require working beyond five p.m. (5:00 p.m.) on weekdays or six p.m. (6:00 p.m.) on Saturday.

E. The minimum fine for a citation or penalty for violating construction hours is one thousand dollars ($1,000.00), and escalates in one thousand dollars ($1,000.00) increments.

F. Work must be controlled to prevent causing a public nuisance due to dust, noise, vibrations, and the like.
(Ord. 2019-08 § 3 (part), 2019; Ord. 2016-08 § 3 (part), 2016)

Existing Noise Environment

Figure 1 shows the project's site plan superimposed on an aerial image of the project site. The proposed project would be constructed south of Fitzgerald Drive, approximately 500 feet from eastbound Interstate 80 (I-80). The project site occupies the westernmost portion of the existing shopping center, with additional commercial land uses to the west and north. Single-family residences are located to the south.

A noise monitoring survey was conducted between Tuesday, October 5, 2021 and Thursday, October 7, 2021. The noise monitoring survey included two long-term noise measurements (LT-1 and LT-2) and four short-term noise measurement (ST-1 to ST-4). Noise measurement locations are shown in Figure 1 and the daily trends in noise levels for the long-term measurements is shown in Figures 2 through 7. The noise environment at the site and at the nearby residential land uses in the site vicinity results primarily from vehicular traffic along I-80 and Fitzgerald Drive and commercial activities.

Long-term noise measurement LT-1 was made near the southwest corner of the project site adjacent to the Best Buy loading dock to the west and Mitchell Way residences to the south. Hourly average noise levels at this location typically ranged from 42 to 55 dBA L_{eq}, and maximum instantaneous noise levels typically ranged from 65 to 80 dBA L_{max}. The day-night average noise level was 54 dBA DNL on Wednesday, October 6, 2021.

Long-term noise measurement LT-2 was made approximately 85 feet from the centerline of Fitzgerald Drive. Hourly average noise levels at this location typically ranged from 52 to 71 dBA L_{eq} , and maximum instantaneous noise levels typically ranged from 70 to 88 dBA L_{max}. The day-night average noise level was 67 dBA DNL on Wednesday, October 6, 2021.

Four short-term noise measurements were made to supplement the long-term data by quantifying and characterizing noise levels throughout the project site. Table 4 summarizes the results of the short-term noise measurements

TABLE 4 Summary of Short-Term Noise Measurements (dBA)

Noise Measurement Location	Date, Time	Measured Noise Level, dBA					
		L_{max}	$L_{(1)}$	$L_{(10)}$	$L_{(50)}$	$L_{(90)}$	L_{eq}
ST-1: ~120 feet south of the centerline of Fitzgerald Drive	10/5/2021, 12:30-12:40	72	67	62	57	52	59
ST-2: West side of existing commercial building	10/5/2021, 12:30-12:40	72	67	60	52	49	57
ST-3: Southwest corner of site	10/5/2021, 12:50-13:00	60	56	51	49	47	50
ST-4: South boundary of site near residences	10/5/2021, 12:50-13:00	69	65	52	50	48	53

Source: Illingworth & Rodkin, Inc., 2021.

FIGURE 1 Aerial Image Showing Site Plan, Measurement Locations, and Site Vicinity

FIGURE 2

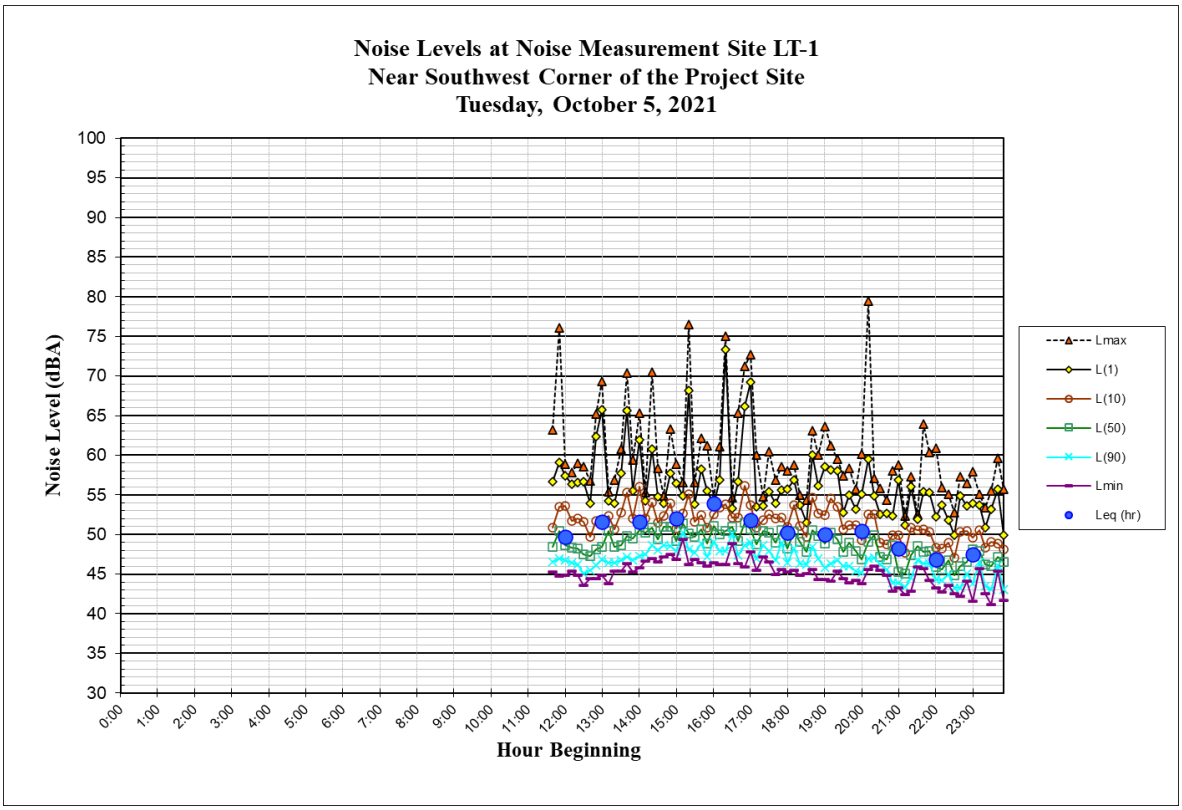


FIGURE 3

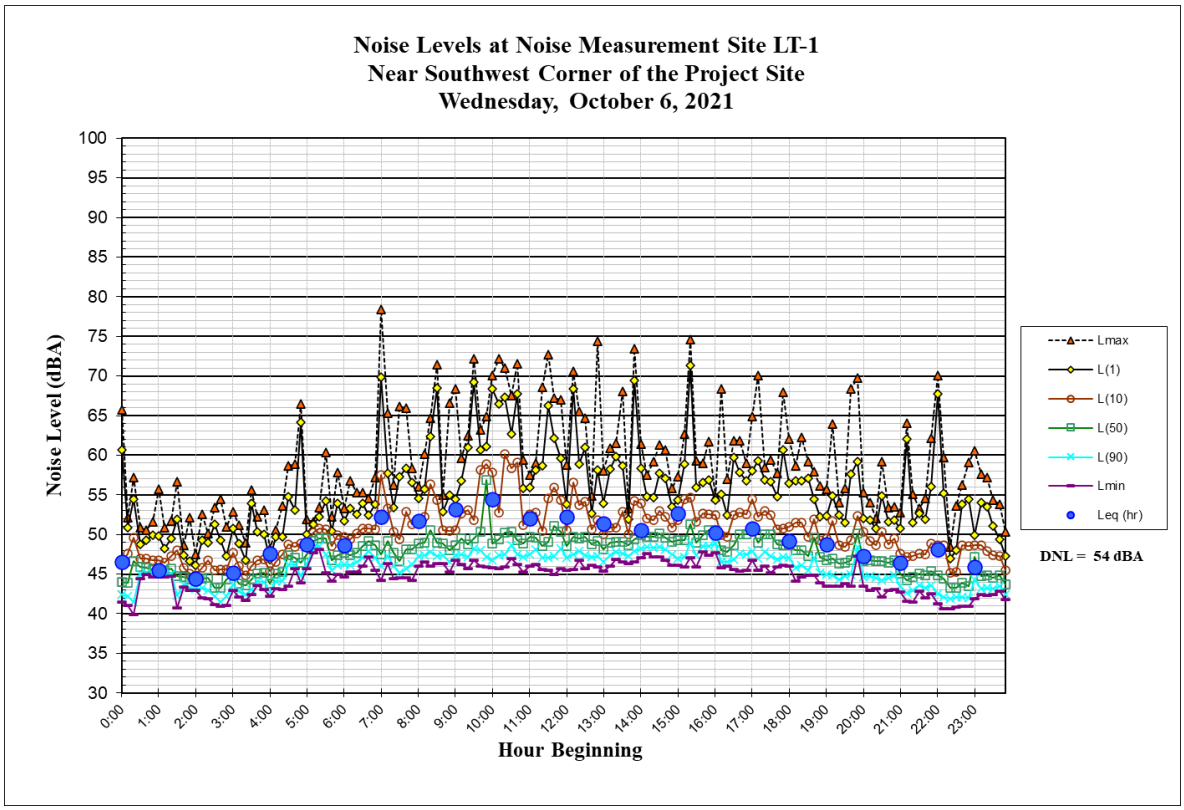


FIGURE 4

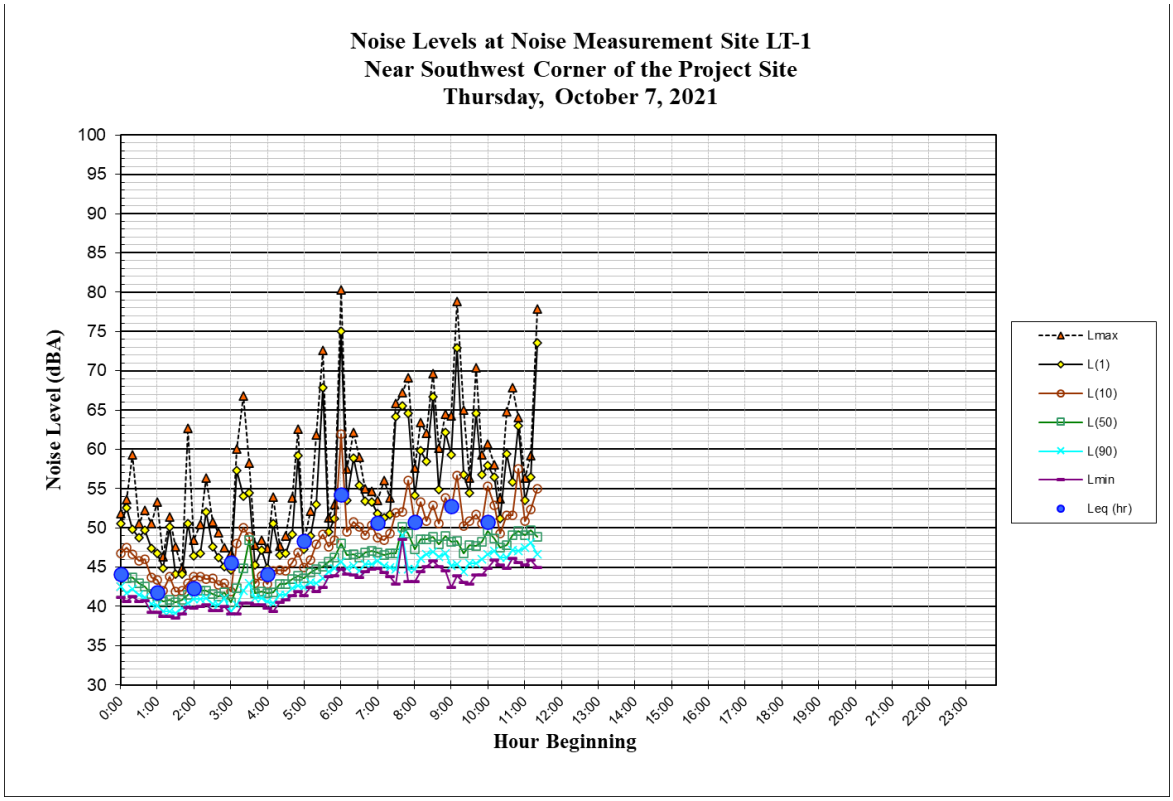


FIGURE 5

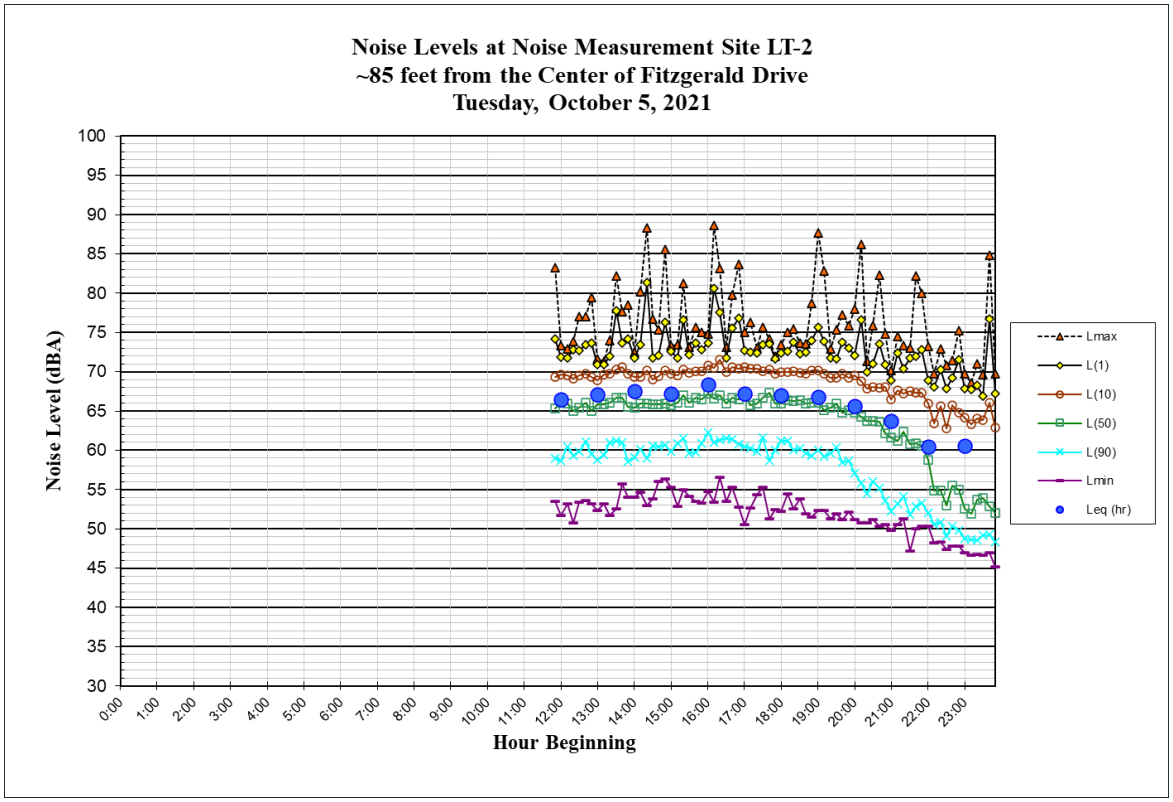


FIGURE 6

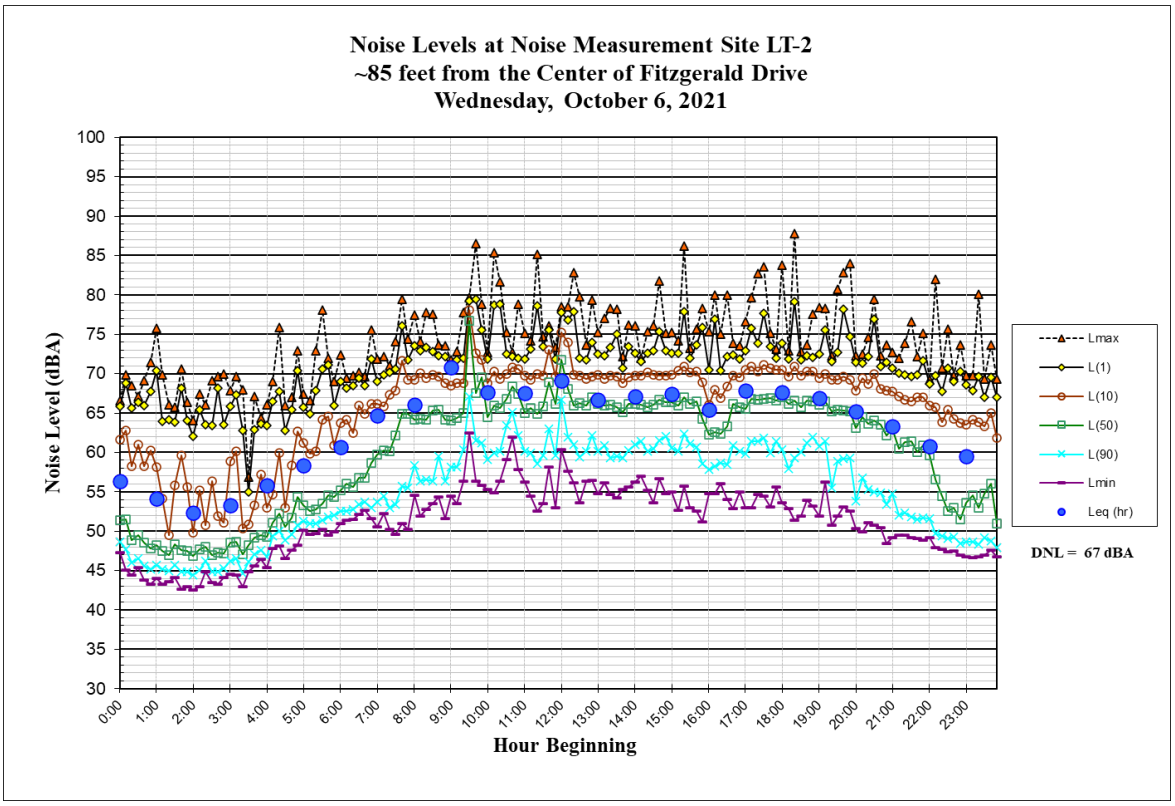
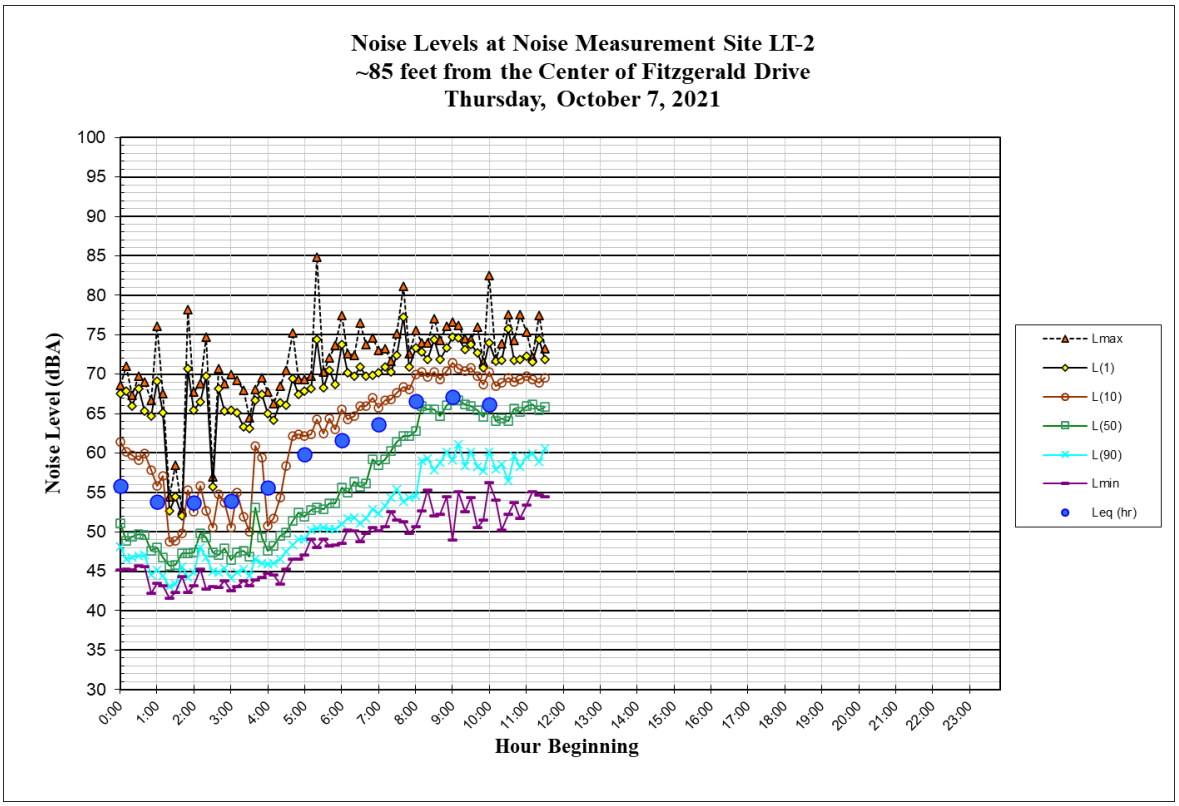


FIGURE 7



GENERAL PLAN CONSISTENCY ANALYSIS

The future noise environment at the project site would continue to result primarily from vehicular traffic along Fitzgerald Drive and I-80. The City of Pinole's 2010 Draft General Plan Noise Section[1] provided existing and future traffic noise contours for these roadways, and according to these data, existing noise levels at the project site and surrounding areas are projected to increase by 1 to 2 dBA over existing conditions with the build-out of the General Plan.

Future Exterior Noise Environment

Open space is proposed throughout the site in a wide variety of noise environments. The highest future noise exposures would occur at the front yard open space, private patios, and roof deck proposed on the north end of the building along Fitzgerald Drive. Exterior noise levels at these locations would reach 69 dBA DNL assuming the build-out of the General Plan. Lower noise levels would be experienced at open space areas shielded by the building itself, including private patio areas along the west and south sides of the building, Courtyards A and B, and the rear yard open space proposed along the south boundary of the site. Exterior noise levels in well shielded areas (e.g., private patios on the south side of the building, Courtyards A and B, and the rear yard open space areas) are expected to be less than 60 dBA DNL. Future exterior noise levels would fall below the City's normally acceptable limit of 60 dBA DNL for over 80% of the outdoor space proposed by the project, and the remaining outdoor space would fall within the conditionally acceptable limit of 75 dBA DNL. Considering the infrequent and intermittent usage of the spaces exposed to the highest noise levels, and the fact that there are several additional outdoor use areas proposed in compatible noise environments for quiet outdoor enjoyment, no additional noise controls are recommended for the front yard open space, private patios, and roof deck proposed on the north end of the building along Fitzgerald Drive because a noise barrier would take away from the aesthetic appeal and intention of these outdoor spaces.

Future Interior Noise Environment

Standard residential construction provides approximately 15 dBA of exterior-to-interior noise reduction, assuming the windows are partially open for ventilation. Standard construction with the windows closed provides approximately 20 to 25 dBA of noise reduction in interior spaces. Where exterior noise levels range from 60 to 65 dBA DNL, the inclusion of adequate forced-air mechanical ventilation is often the method selected to reduce interior noise levels to acceptable levels by closing the windows to control noise. Where noise levels exceed 65 dBA DNL, forced-air mechanical ventilation systems and sound-rated construction methods are normally required. Such methods or materials may include a combination of smaller window and door sizes as a percentage of the total building façade facing the noise source, sound-rated windows and doors, sound rated exterior wall assemblies, and mechanical ventilation so windows may be kept closed at the occupant's discretion.

Residential units proposed along the north façade of the proposed building, facing Fitzgerald Drive, would be exposed to future exterior noise levels up to 69 dBA DNL. Assuming windows are partially open for ventilation, future interior noise levels in these units would reach 54 dBA

[1] City of Pinole, General Plan Update Draft Environmental Impact Report, July 2010.

DNL. Units located on the western and eastern façades of the proposed building would be partially shielded from traffic; however, exterior noise levels up to 66 dBA DNL are anticipated. Assuming windows to be partially open, future interior noise levels in these units would be up to 51 dBA DNL. Units along the south façade and within the courtyards would be exposed to exterior noise levels of less than 60 dBA DNL. To meet the interior noise requirements set forth by the City of Pinole and the requirements of the State Building Code (i.e., 45 dBA DNL), implementation of noise insulation features would be required.

Noise Insulation Features to Reduce Future Interior Noise Levels

The following noise insulation features shall be incorporated into the proposed project to reduce interior noise levels to 45 dBA DNL or less at residential interiors:

- Provide a suitable form of forced-air mechanical ventilation, as determined by the local building official, for all residential units on the project site, so that windows can be kept closed at the occupant's discretion to control interior noise and achieve the interior noise standards.

- Preliminary calculations indicate that residential units along the northern building façade should be provided with windows and doors having a minimum rating of 30 STC and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL.

- Preliminary calculations indicate that residential units along the western and eastern building façades should be provided with windows and doors having a minimum rating of 28 STC and adequate forced-air mechanical ventilation in order to meet the interior noise threshold of 45 dBA DNL.

The implementation of these noise insulation features would reduce interior noise levels to 45 dBA DNL or less at residential uses.

Conditions of Approval

A qualified acoustical specialist shall prepare a detailed analysis of interior residential noise levels resulting from all exterior sources during the design phase pursuant to requirements set forth in the State Building Code. The study will review the final site plan, building elevations, and floor plans prior to construction and recommend building treatments to reduce residential interior noise levels to 45 dBA DNL or less. Treatments would include, but are not limited to, sound-rated windows and doors, sound-rated wall and window constructions, acoustical caulking, protected ventilation openings, etc. The specific determination of what noise insulation treatments are necessary shall be conducted on a unit-by-unit basis during final design of the project. Results of the analysis, including the description of the necessary noise control treatments, shall be submitted to the City, along with the building plans and approved design, prior to issuance of a building permit.

NOISE IMPACTS AND MITIGATION MEASURES

This section describes the significance criteria used to evaluate project impacts under CEQA, provides a discussion of each project impact, and presents mitigation measures, where necessary, to reduce project impacts to less-than-significant levels.

Significance Criteria

The following criteria were used to evaluate the significance of environmental noise and vibration resulting from the project:

- **Temporary or Permanent Noise Increases in Excess of Established Standards.** A significant noise impact would be identified if the project would generate a substantial temporary or permanent noise level increase in ambient noise levels at existing noise-sensitive receptors in excess of the applicable noise standards presented in the General Plan or Municipal Code.

- **Generation of Excessive Groundborne Vibration.** A significant impact would be identified if the construction of the project would expose persons to excessive vibration levels.

Impact 1a: **Temporary Noise.** The construction of the project would temporarily increase ambient noise levels in the project vicinity, but the impact would be **less than significant** with the implementation of standard construction noise controls.

Construction of the project is planned to begin in September 2022. The duration of project is planned to be approximately 24 months, ending in September 2024. Proposed construction phases would include demolition, site preparation, grading/excavation, trenching, building exteriors and interiors and paving. During each stage of construction, there would be a different mix of equipment operating, and noise levels would vary by stage and vary within stages, based on the amount of equipment in operation and the location at which the equipment is operating.

Typical construction noise levels at 50 feet are shown in Tables 5 and 6. Table 5 shows the average noise level ranges, by construction phase, and Table 6 shows the maximum noise level ranges for different construction equipment. As shown in Table 5, construction noise levels produced by the project would typically range from 81 to 88 dBA L_{eq} at a distance of 50 feet from the source with all pertinent equipment present at the site. With the minimum required equipment present at the site, construction noise levels produced by the project would typically range from 65 to 83 dBA L_{eq} at a distance of 50 feet from the source. Construction-generated noise levels drop off at a rate of about 6 dBA per doubling of the distance between the source and receptor. Shielding by buildings or terrain can provide an additional 5 to 10 dBA noise reduction at distant receptors.

TABLE 5 Typical Ranges of Construction Noise Levels at 50 Feet, L_{eq} (dBA)

	Domestic Housing		Office Building, Hotel, Hospital, School, Public Works		Industrial Parking Garage, Religious Amusement & Recreations, Store, Service Station		Public Works Roads & Highways, Sewers, and Trenches	
	I	II	I	II	I	II	I	II
Ground Clearing	83	83	84	84	84	83	84	84
Excavation	88	75	89	79	89	71	88	78
Foundations	81	81	78	78	77	77	88	88
Erection	81	65	87	75	84	72	79	78
Finishing	88	72	89	75	89	74	84	84

I - All pertinent equipment present at site.
II - Minimum required equipment present at site.

Source: U.S.E.P.A., Legal Compilation on Noise, Vol. 1, p. 2-104, 1973.

TABLE 6 Construction Equipment 50-foot Noise Emission Limits

Equipment Category	L_{max} Level (dBA)[1,2]	Impact/Continuous
Arc Welder	73	Continuous
Auger Drill Rig	85	Continuous
Backhoe	80	Continuous
Bar Bender	80	Continuous
Boring Jack Power Unit	80	Continuous
Chain Saw	85	Continuous
Compressor[3]	70	Continuous
Compressor (other)	80	Continuous
Concrete Mixer	85	Continuous
Concrete Pump	82	Continuous
Concrete Saw	90	Continuous
Concrete Vibrator	80	Continuous
Crane	85	Continuous
Dozer	85	Continuous
Excavator	85	Continuous
Front End Loader	80	Continuous
Generator	82	Continuous
Generator (25 KVA or less)	70	Continuous
Gradall	85	Continuous
Grader	85	Continuous
Grinder Saw	85	Continuous
Horizontal Boring Hydro Jack	80	Continuous
Hydra Break Ram	90	Impact
Impact Pile Driver	105	Impact
Insitu Soil Sampling Rig	84	Continuous
Jackhammer	85	Impact

Equipment Category	L_{max} Level (dBA)[1,2]	Impact/Continuous
Mounted Impact Hammer (hoe ram)	90	Impact
Paver	85	Continuous
Pneumatic Tools	85	Continuous
Pumps	77	Continuous
Rock Drill	85	Continuous
Scraper	85	Continuous
Slurry Trenching Machine	82	Continuous
Soil Mix Drill Rig	80	Continuous
Street Sweeper	80	Continuous
Tractor	84	Continuous
Truck (dump, delivery)	84	Continuous
Vacuum Excavator Truck (vac-truck)	85	Continuous
Vibratory Compactor	80	Continuous
Vibratory Pile Driver	95	Continuous
All other equipment with engines larger than 5 HP	85	Continuous

Notes:

1 Measured at 50 feet from the construction equipment, with a "slow" (1 sec.) time constant.

2 Noise limits apply to total noise emitted from equipment and associated components operating at full power while engaged in its intended operation.

3 Portable Air Compressor rated at 75 cfm or greater and that operates at greater than 50 psi.

Source: Mitigation of Nighttime Construction Noise, Vibrations and Other Nuisances, National Cooperative Highway Research Program, 1999.

The Federal Highway Administration's (FHWA's) Roadway Construction Noise Model (RCNM) was used to calculate the hourly average noise levels anticipated for the worst-case scenario for each construction phase, based on the equipment list provided by the applicant at the time of this study. RCNM includes representative sound levels for the most common types of construction equipment and the approximate usage factors of such equipment that were developed based on an extensive database of information gathered during the construction of the Central Artery/Tunnel Project in Boston, Massachusetts (CA/T Project or "Big Dig"). The usage factors represent the percentage of time that the equipment would be operating at full power. To estimate the worst-case scenario for each phase of the proposed project, it was assumed that all equipment provided for each phase would operate simultaneously. RCNM calculated construction noise levels ranging from 79 to 83 dBA L_{eq} at a distance of 50 feet from the source, which corresponded well with the U.S Environmental Protection Agency's typical range of construction noise levels for domestic housing (Table 5).

Table 7 summarizes all equipment and quantities expected to be used for each construction phase, the duration of each phase, and the estimated worst-case scenario noise levels expected at the property lines of the nearest surrounding noise-sensitive land use. During construction at both areas, construction equipment would likely be spread throughout the sites, but for purposes of modeling the worst-case scenario, all equipment was assumed to be operating in relatively the same area, with the geometrical center of construction equipment being the center of the construction sites. Therefore, the propagation distances were estimated from the center of the active construction site to the property lines of the surrounding receptors. No shielding effects were assumed for the estimated noise levels shown in Table 7.

TABLE 7 Estimated Construction Noise Levels at Nearby Land Uses

Phase	Time Duration	Construction Equipment (Quantity)	Calculated Hourly Average L_{eq}, dBA			
			Source (50 feet)	West Commercial (260 ft)	North and East Commercial (330 ft)	South Residential (375 ft)
Demolition	9/5/2022-10/10/2022	Excavators (2)	80	66	64	63
Site Preparation	10/10/2022-10/24/2022	Grader (1)	81	67	65	64
Grading/ Excavation	10/24/2022-11/7/2022	Excavators (2) Tractor/Loader/Backhoe (1)	83	69	67	66
Trenching	11/7/2022-2/6/2023	Excavator (1) Tractor/Loader/Backhoe (1)	82	68	66	65
Building – Exterior/ Interior/ Architectural Coating	2/6/2023-8/12/2024	Forklifts (2) Air Compressors (2) Aerial Lifts (2)	79	65	63	62
Paving	8/12/2024-9/6/2024	Cement and Mortar Mixer (1) Paving Equipment (1) Rollers (2)	81	67	65	64

The nearest commercial receptors to the west, north, and east (approximately 260 to 330 feet from the acoustic center of the project site) would be exposed to average construction noise levels ranging from 63 to 69 dBA L_{eq}. Mitchell Way residences (approximately 375 feet south) would be exposed to average construction noise levels ranging from 62 to 66 dBA L_{eq}.

Standard construction best management practices can be incorporated into the project specifications to reduce noise levels emanating from the site and to minimize disruption and annoyance at existing noise-sensitive receptors in the project vicinity. Such feasible measured include, but are not limited to, the following controls:

- Construction shall be limited to the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday, excluding holidays. Saturday work is allowed in commercial zones only, from 9:00 a.m. to 6:00 p.m., as long as it is interior work and does not generate significant noise. Any work outside of these hours by the construction contractors should require a special permit from the City Manager. There should be compelling reasons for permitting construction outside of these designated hours.

- Construct temporary noise barriers, where feasible, to screen adjoining land uses. Temporary noise barrier fences would provide a 5 dBA noise reduction if the noise barrier interrupts the line-of-sight between the noise source and receptor and if the barrier is constructed in a manner that eliminates any cracks or gaps.

- The contractor shall use "new technology" power construction equipment with state-of-the-art noise shielding and muffling devices. All internal combustion engines used on the project site shall be equipped with adequate mufflers and shall be in good mechanical condition to minimize noise created by faulty or poorly maintained engines or other components.

- The unnecessary idling of internal combustion engines shall be prohibited.

- Staging areas and stationary noise-generating equipment shall be located as far as possible from noise-sensitive receptors.

- Ensure that generators, compressors, and pumps are housed in acoustical enclosures.

- Locate cranes as far from adjoining noise-sensitive receptors as possible.

- Substitute nail guns for manual hammering and electrically powered tools for noisier pneumatic tools, where feasible.

- A "noise disturbance coordinator" shall be designated to respond to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaints (e.g., beginning work too early, bad muffler, etc.) and institute reasonable measures warranted to correct the problem. A telephone number for the disturbance coordinator would be conspicuously posted at the construction site.

Reasonable regulation of the hours of construction, as well as regulation of the arrival and operation of heavy equipment and the delivery of construction material, are necessary to protect the health and safety of persons, promote the general welfare of the community, and maintain the quality of life. Implementation of the above standard construction controls would reduce construction noise levels emanating from the site, minimizing disruption and annoyance. The implementation of these standard controls would reduce the impact to a **less-than-significant** level.

Mitigation Measures: **None required.**

Impact 1b: **Permanent Noise Level Increase.** The proposed project is not expected to cause a substantial permanent noise level increase at existing land uses in the project vicinity. **This is a less-than-significant impact.**

A significant permanent noise increase would occur if the project would increase noise levels at noise-sensitive receptors by 3 dBA DNL or more. For this project, the only noise source that would have the potential to permanently increase ambient noise levels in the project vicinity is vehicular traffic. For reference, a 3 dBA DNL noise increase would be expected if the project would double existing traffic volumes along a roadway.

The traffic analysis prepared for the project by W-Trans included trip generation data showing that the project would result in a net decrease of 926 daily trips, with 84 less trips during the PM Peak Hour. A net increase of 24 trips would be expected during the AM Peak Hour. All vehicle trips would access the site from Fitzgerald Drive. According to the project's traffic analysis, there are approximately 941 existing AM Peak Hour trips along Fitzgerald Drive west of Appian Way. The addition of the proposed project trips to the existing traffic along Fitzgerald Drive would result in a traffic noise level increase of 0 dBA L_{eq} during the AM Peak Hour and a net reduction in traffic noise levels over the course of the day.

The site plan shows mechanical, electrical, and plumbing rooms on the west side of the building approximately 300 feet from the nearest off-site residences to the south. Noise-generating equipment in these rooms would be fully enclosed and undetectable at off-site locations.

Heating, ventilation, and air conditioning (HVAC) equipment would be distributed on the roof of the building, and residential receptors located to the south would have direct line of sight to the HVAC units as no parapet wall is proposed at the roof's edge. HVAC units for residential buildings of this size would typically generate noise levels ranging from 53 to 63 dBA at 3 feet from the equipment, depending on the equipment selected. These types of units typically cycle on and off throughout the day and night; so, it is typical for multiple HVAC units to operate simultaneously at any given time. Assuming half the units (27 units) along the southernmost portion of the building would be run simultaneously at any given time, hourly average noise levels would range from 67 to 77 dBA L_{eq} at a distance of 3 feet. The nearest residential property line approximately 200 feet to the south would be exposed to noise levels up to 41 dBA L_{eq}/47 dBA DNL assuming 24-hour operation of these equipment.

Based on the above assumptions, mechanical equipment noise levels are not expected to produce noise levels that would exceed the City's Municipal Code noise limits or result in a substantial permanent noise increase at the adjacent receptors, and the impact is **less than significant**.

Mitigation Measures: **None required.**

Impact 2: **Generation of Excessive Groundborne Vibration.** Construction-related vibration levels would not exceed the 0.3 in/sec PPV at existing buildings adjacent to the project site. **This is a less-than-significant impact.**

Construction activities would include demolition, site preparation, grading/excavation, trenching, building exteriors and interiors, and paving. The proposed project would not require pile driving, which can cause excessive vibration. However, construction activities may generate perceptible vibration when heavy equipment or impact tools are used near the project boundaries adjoining nearby sensitive land uses.

The City of Pinole does not define vibration thresholds. For structural damage, the California Department of Transportation recommends a vibration limit of 0.5 in/sec PPV for buildings structurally sound and designed to modern engineering standards, which typically consist of buildings constructed since the 1990s. A conservative vibration limit of 0.3 in/sec PPV has been used for buildings that are found to be structurally sound but where structural damage is a major concern (see Table 3 above for further explanation). For historical buildings or buildings that are documented to be structurally weakened, a conservative limit of 0.08 in/sec PPV is often used to provide the highest level of protection. No historical buildings or buildings that are documented to be structurally weakened adjoin the project site. The 0.3 in/sec PPV vibration limit would be applicable to properties in the immediate vicinity of the project site since there are no known historic buildings in the vicinity.

Vibration levels would vary depending on soil conditions, construction methods, and equipment used. Jackhammers typically generate vibration levels of 0.035 in/sec PPV and drilling typically generates vibration levels of 0.09 in/sec PPV at a distance of 25 feet. Vibration levels are highest close to the source, and then attenuate with increasing distance at the rate $(Dref/D)^{1.1}$, where D is the distance from the source in feet, and Dref is the reference distance of 25 feet. Table 8 presents typical vibration levels that could be expected from construction equipment at 25 feet and summarizes the expected vibration levels at the nearest off-site buildings, which would be 30 feet or more from areas of the project site that would be developed with the project. As indicated in the table, worst-case project-generated vibration levels would be less than 0.2 in/sec PPV at a distance of 30 feet and would fall below the 0.3 in/sec PPV structural damage threshold at all nearby buildings. Neither cosmetic, minor, or major damage would occur beyond 20 feet. At these locations and in other surrounding areas where vibration would not be expected to cause structural damage, vibration levels may still be perceptible. However, as with any type of construction, this would be anticipated and would not be considered significant, given the intermittent and short duration of the phases that have the highest potential of producing vibration. By use of administrative controls, such as notifying neighbors of scheduled construction activities and scheduling construction activities with the highest potential to produce perceptible vibration during

hours with the least potential to affect nearby residences, perceptible vibration can be kept to a minimum.

While construction activity may be perceptible, the proposed project is not expected to result in "architectural" damage to any surrounding structure. **This is a less-than-significant impact**.

TABLE 8 Vibration Levels for Construction Equipment

Equipment		PPV at 25 ft. (in/sec)	Vibration Levels at Nearest Buildings (in/sec PPV)	
			Nearest Commercial (30 ft East)	Nearest Residential (65 ft South)
Clam shovel drop		0.202	0.165	0.071
Hydromill (slurry wall)	In soil	0.008	0.007	0.003
	In rock	0.017	0.014	0.006
Vibratory Roller		0.21	0.172	0.073
Hoe Ram		0.089	0.073	0.031
Large bulldozer		0.089	0.073	0.031
Caisson drilling		0.089	0.073	0.031
Loaded trucks		0.076	0.062	0.027
Jackhammer		0.035	0.029	0.012
Small bulldozer		0.003	0.002	0.001

Source: Transit Noise and Vibration Impact Assessment Manual, Federal Transit Administration, Office of Planning and Environment, U.S. Department of Transportation, FTA Report No. 0123, September 2018, as modified by Illingworth & Rodkin, Inc., October 2021.

Mitigation Measures: None required.

January 27, 2022

Mr. Richard Schoebel
Metrovation | Cole GP
25 Bridge Avenue, Suite
150 Red Bank, NJ 07701

Revised Traffic Analysis for the Pinole Vista Project

Dear Mr. Schoebel;

As requested, W-Trans has prepared a traffic analysis for the proposed Pinole Vista project. The purpose of this analysis is to address the potential circulation-related effects of the residential development on the surrounding neighborhood and streets.

Project Description

The proposed project would convert an unoccupied 91,340 square foot retail shopping center into a 223-unit multi-family housing complex. The main access points to the project would be the two most westerly driveways of the Pinole Vista Shopping center.

Study Area and Periods

The study area consists of all five existing shopping center driveways and the signalized intersection of Appian Way/Fitzgerald Drive-Sarah Drive. The two most westerly driveways (Driveway 1 and Driveway 2) would provide access to the project site. The study area driveways and study signalized intersection are listed below:

1. Fitzgerald Drive/Shopping Center Driveway 1-Motel 6 Driveway
2. Fitzgerald Drive/Shopping Center Driveway 2-Motel 6 Driveway
3. Fitzgerald Drive/Pinole Vista Shopping Center (signalized)
4. Fitzgerald Drive/Shopping Center Driveway 4-Burger King Driveway
5. Fitzgerald Drive/Shopping Center Driveway 5
6. Fitzgerald Drive-Sarah Drive/Appian Way

Operating conditions during the a.m. and p.m. peak periods were evaluated to capture the highest potential trip generation for the proposed project as well as the highest volumes on the local transportation network. The morning peak hour occurs between 7:00 and 9:00 a.m. and reflects conditions during the home to work or school commute, while the p.m. peak hour occurs between 4:00 and 6:00 p.m. and typically reflects the highest level of congestion during the homeward bound commute.

Intersection Level of Service Methodologies

Level of Service (LOS) is used to rate traffic operation on various types of facilities based on traffic volumes and roadway capacity using a series of letter designations ranging from A to F. Generally, Level of Service A represents free flow conditions and Level of Service F represents forced flow or breakdown conditions. A unit of measure that indicates a level of delay generally accompanies the LOS designation.

The study intersections were analyzed using methodologies published in the *Highway Capacity Manual* (HCM), Transportation Research Board, 2018. This source contains methodologies for various types of intersection control, all of which are related to a measurement of delay in average number of seconds per vehicle.

The Levels of Service for the driveways that are unsignalized and have one or two approaches stop-controlled were analyzed using the "Two-Way Stop-Controlled" intersection capacity method from the HCM. This methodology determines a level of service for each minor turning movement by estimating the level of average delay in seconds per vehicle. Results are presented for individual movements together with the weighted overall average delay for the intersection. Note that while driveways are not technically intersections, they were evaluated as such for purposes of this analysis.

The one study intersection and one driveway are controlled by traffic signals so were evaluated using the signalized methodology from the HCM. This methodology is based on factors including traffic volumes, green time for each movement, phasing, whether the signals are coordinated or not, truck traffic, and pedestrian activity. Average stopped delay per vehicle in seconds is used as the basis for evaluation in this LOS methodology. For purposes of this study, delays were calculated using traffic signal timing obtained from the City of Pinole as well as field observations.

The ranges of delay associated with the various levels of service are indicated in Table 1.

Table 1 – Intersection Level of Service Criteria

LOS	Two-Way Stop-Controlled	Signalized
A	Delay of 0 to 10 seconds. Gaps in traffic are readily available for drivers exiting the minor street.	Delay of 0 to 10 seconds. Most vehicles arrive during the green phase, so do not stop at all.
B	Delay of 10 to 15 seconds. Gaps in traffic are somewhat less readily available than with LOS A, but no queuing occurs on the minor street.	Delay of 10 to 20 seconds. More vehicles stop than with LOS A, but many drivers still do not have to stop.
C	Delay of 15 to 25 seconds. Acceptable gaps in traffic are less frequent, and drivers may approach while another vehicle is already waiting to exit the side street.	Delay of 20 to 35 seconds. The number of vehicles stopping is significant, although many still pass through without stopping.
D	Delay of 25 to 35 seconds. There are fewer acceptable gaps in traffic, and drivers may enter a queue of one or two vehicles on the side street.	Delay of 35 to 55 seconds. The influence of congestion is noticeable, and most vehicles have to stop.
E	Delay of 35 to 50 seconds. Few acceptable gaps in traffic are available, and longer queues may form on the side street.	Delay of 55 to 80 seconds. Most, if not all, vehicles must stop, and drivers consider the delay excessive.
F	Delay of more than 50 seconds. Drivers may wait for long periods before there is an acceptable gap in traffic for exiting the side streets, creating long queues.	Delay of more than 80 seconds. Vehicles may wait through more than one cycle to clear the intersection.

Reference: *Highway Capacity Manual,* Transportation Research Board, 2018

Traffic Operation Standards

Per the City of Pinole's level of service standards, the minimum desired service level for intersections located on Fitzgerald Drive is low LOS D. Because this standard does not technically apply to driveways, for the purposes of the operational review, the Level of Service standard was applied to the overall intersection average delay to ensure continued acceptable operation of Fitzgerald Drive.

On sections of certain arterial streets, it is typical to have all the side streets or driveways operating at LOS E or F with long traffic delays, even where side street volumes are relatively low compared to the traffic volume on the major street. It may be operationally, physically, and/or financially infeasible to provide mitigation which would

allow Level of Service D or better operation from all side streets during peak hours. The most typical mitigation measure used to improve operation for the side street is a traffic signal, but it can be operationally or financially undesirable to provide a traffic signal at every intersection or driveway along most street segments.

Trip Generation

The anticipated trip generation for the proposed project was estimated using standard rates published by the Institute of Transportation Engineers (ITE) in *Trip Generation Manual*, 10th Edition, 2017 for "Multi-family Housing (Mid-Rise)" (ITE LU #221). Because the site was previously an occupied department store, the trip generation for the land used was included. "Department Store" (ITE LU #875) rates were applied to estimate vehicle trips from the prior K-Mart store.

The proposed project is expected to generate an average of 1,213 trips per day, including 80 trips during the a.m. peak hour and 94 during the p.m. peak hour. Compared to the prior retail land use, the proposed project would be expected to generate fewer daily trips. During the a.m. peak hour, there would be a net increase of 27 trips though the directionality (in vs. out) would shift and there would be an expected decrease in inbound trips. During the p.m. peak hour, the trip generation would be expected to decrease overall compared to that of a department store. These trip generation results are summarized in Table 2.

Table 2 – Trip Generation Summary

Land Use	Units	Daily		AM Peak Hour				PM Peak Hour			
		Rate	Trips	Rate	Trips	In	Out	Rate	Trips	In	Out
Prior											
Department Store	−91.34 ksf	22.88	−2,090	0.58	−53	−34	−19	1.95	−178	−89	−89
Proposed											
Multi-Family Housing	223 du	5.44	1,213	0.36	80	21	59	0.44	98	60	38
Net Change			**−877**		**27**	**−13**	**40**		**−80**	**−29**	**−51**

Note: ksf = 1,000 square feet; du = dwelling unit

Trip Distribution

The pattern used to allocate project trips to the street network was based on prevailing circulation patterns along Fitzgerald Drive and Appian Way. The applied distribution assumptions are shown in Table 3.

Table 3– Trip Distribution Assumptions

Route	AM Percent	PM Percent
To/From Fitzgerald Dr W	46%	60%
To/From Appian Wy N	36%	26%
To/From Appian Wy S	18%	14%
TOTAL	**100%**	**100%**

Existing and Existing plus Project Conditions

The Existing Conditions scenario provides an evaluation of current operation based on existing traffic volumes during the a.m. and p.m. peak periods. Counts were collected October 2020 when weather conditions were good.

Consideration was given to modifying the volumes to reflect that due to COVID-19 traffic, volumes are lower than what was previously typical. Based on the decrease in volumes as determined from a review of Caltrans Performance Measurement System (PeMS) data, the 2020 traffic counts were increased by 30 percent to project a typical or normalized 'existing' condition.

The Existing plus Project scenario reflect conditions with traffic associated with the proposed project added to the normalized existing volumes. Overall, the intersections and driveways operate at mid-LOS D or better, which is considered acceptable under the City's policies. Since Driveway 5 is right turn only into the shopping center, no delay at this location was identified. These results are summarized in Table 4 and the calculations are enclosed.

Table 4 – Existing and Existing plus Project Peak Hour Intersection Levels of Service

Study Intersection ***Approach***	**Existing Conditions**				**Existing plus Project**			
	AM Peak		**PM Peak**		**AM Peak**		**PM Peak**	
	Delay	**LOS**	**Delay**	**LOS**	**Delay**	**LOS**	**Delay**	**LOS**
1. Fitzgerald Dr/Driveway 1	0.2	A	0.2	A	0.6	A	0.9	A
SB (Motel 6 Driveway) Approach	*11.6*		*14.2*		*11.9*		*14.7*	
NB (Project Driveway 1) Approach	*9.1*		*35.9*		*11.0*		*86.4*	
2. Fitzgerald Dr/Driveway 2	0.6	A	2.4	A	1.1	A	5.6	A
SB (Motel 6 Driveway) Approach	*11.3*		*40.5*		*11.6*		*46.2*	
NB (Project Driveway 2) Approach	*11.7*		*91.2*		*11.6*		**	
3. Fitzgerald Dr/Pinole Vista Shopping Center	23.2	C	43.7	D	22.9	C	45.1	D
4. Fitzgerald Dr/Driveway 4	4.2	A	3.9	A	4.1	A	3.9	A
SB (Burger King/Wing Stop Driveway) Approach	*9.2*		*11.6*		*9.3*		*11.7*	
NB (Pinole Vista Driveway 4) Approach	*10.2*		*26.5*		*10.4*		*27.0*	
5. Fitzgerald Dr/Driveway 5	0.0	A	0.0	A	0.0	A	0.0	A
6. Fitzgerald Dr-Sarah Dr/Appian Wy	20.3	C	35.3	D	20.7	C	35.7	D

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service; Results for minor approaches to two-way stop-controlled intersections are indicated in *italics;* SB = Southbound; NB = Northbound; ** = delay greater than 120 seconds

It should be noted that with the addition of project-related traffic volumes the average delay at the intersection of Fitzgerald Drive/Pinole Vista Shopping Center and at Driveway 4 to the east would be expected to decrease during the a.m. peak hour. While this is counter-intuitive, this condition occurs when a project adds trips to movements that are currently underutilized or have delays that are below the intersection average, resulting in a better balance between approaches and lower overall average delay. The project adds traffic predominantly to the through movement, which has an average delay that is lower than the average for the intersection as a whole, resulting in a slight reduction in the overall average delay. The conclusion could incorrectly be drawn that the project actually improves operation based on this data alone; however, it is more appropriate to conclude that the project trips are expected to make use of excess capacity, so drivers will experience little, if any, change in conditions as a result of the project.

Finding – The study intersection and driveways are expected to continue operating acceptably overall upon the addition of project-generated traffic to existing volumes.

Non-Auto Modes

Pedestrian Facilities

Given that the proposed project is located within an existing shopping center, it is reasonable to assume that many residents would want to walk to Lucky's Grocery, Mountain Mike's Pizza, Starbucks, Noah's NY Bagels, or other store fronts within the center, as well as the adjacent land uses.

As proposed, the project site would connect to existing facilities along Fitzgerald Drive. Additionally, along the southerly side of the center, a pedestrian connection would be provided between the residential complex and the pedestrian network for the shopping center.

A review of the off-site uncontrolled pedestrian crossing on Fitzgerald Boulevard at Driveway 2 was conducted based on the local plans and guidance, as well as national guidance. Based on the toolbox provided in the *Countywide Bicycle and Pedestrian Plan Update* (2018), it would be recommended that the crossing at the main project entrance have high-visibility continental crosswalk markings, yield lines (shark's teeth) along with "Yield Here to Pedestrian" signs, as well as a pedestrian hybrid beacon (PHB). Guidance from the *National Cooperative Highway Research Program* (NCHRP) was also reviewed, and an improvement of a similar intensity would be warranted based on the criteria in this resource. However, considering the 300-foot spacing to the intersection to the east, which provides for pedestrian crossings at a signalized intersection, a PHB is not recommended for this location. To reduce the crossing distance, it is instead recommended that a pedestrian-refuge median island be constructed at the intersection along with the recommended high-visibility continental markings and yield line striping with "Yield Here to Pedestrian" sign. The NCHRP warrant sheets indicating recommended measures both with and without the median are enclosed.

If the travel lanes were narrowed there would be sufficient roadway width to provide a pedestrian refuge median island with a width of at least six feet. Based on the assumption that the project would generate pedestrian trips, there is a nexus for the project to contribute to improvements at the off-site crossing, especially considering that tenants would use the crossing to access the westbound transit stop on the other side of Fitzgerald Drive. The project applicant should work with the City to identify the extent of the off-site improvements and the project's relative contribution to the cost of the improvement.

Finding – On-site pedestrian facilities serving the project site are adequate. Off-site pedestrian facilities to accommodate crossings of Fitzgerald Drive would be required.

Recommendations – Given that the project would generate pedestrian trips, the crosswalk at the main project driveway and Fitzgerald Drive should be improved. The project application should work with the City to make improvements at the crossing.

Bicycle Facilities

Based on the *Countywide Bicycle and Pedestrian Plan Update*, Fitzgerald Drive is designated as a location for future bicycle facilities. With the narrowed traveled lanes and the recommended pedestrian-refuge median, there would still be width for new bike facilities when they are installed.

Finding – There are no bicycle facilities currently in the area but there are plans to provide bicycle facilities on Fitzgerald Drive.

Transit

Existing transit routes are adequate to accommodate project-generated transit trips, based on the number of routes and the scheduled headways of service. Existing bus stops are within an acceptable walking distance of the site, at less than 500 feet from the site, and they are accessible via continuous sidewalks.

Finding – Transit facilities serving the project site are

adequate. **Access and Circulation**

Sight Distance

Sight distances along Fitzgerald Drive at the two primary project driveways were evaluated based on criteria contained in the *Highway Design Manual* published by Caltrans. The recommended sight distance for driveway approaches are based on stopping sight distance.

Sight distances from the existing project driveways were field measured. Although sight distance requirements are not technically applicable to urban driveways, the stopping sight distance criterion for private street intersections was applied for evaluation purposes. Based on a design speed of 30 mph, the minimum stopping sight distance needed is 200 feet. At the most westerly project driveway, Driveway 1, the northbound approach to Fitzgerald Drive is uphill and resulting sight lines are about 185 feet. To improve sight lines to the west it is recommended that, with the project, the driveway should be reconstructed to be level with Fitzgerald Drive. Also, the landscaping at the driveway should be low-lying vegetation no more than three feet about the elevation of the roadway. These measures would achieve adequate sight lines at the west driveway. The lines of sight at the main driveway are sufficient in both directions with a clear line of sight of more than 600 feet to the west and more than 300 feet to the east.

Signal Warrant

A traffic signal warrant analysis was performed to determine potential need for a traffic signal at Project Driveway 2. Chapter 4C of the *California Manual on Uniform Traffic Control Devices* (CA-MUTCD) provides guidance on when a traffic signal should be considered. There are nine different warrants, or criteria, presented.

Warrant 3, or the Peak Hour Warrant, is often the first warrant to be met. Under the Peak Hour Warrant the need for a traffic control signal shall be considered if an engineering study finds that the criteria in either of the following two categories are met:

A. If all three of the following conditions exist for the same one hour (any four consecutive 15-minute periods) of an average day:

    1. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds: four vehicle-hours for a one-lane approach; or five vehicle-hours for a two-lane approach, and
    2. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes, and
    3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.

B. The plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for one hour (any four consecutive 15-minute periods) of an average day falls above the applicable curve in Figure 4C-3 for the existing combination of approach lanes.

Under the projected conditions, with and without the project, the volumes at main project driveway would be inadequate to meet the peak hour signal warrant. The warrant spreadsheets are enclosed.

Internal Circulation

Turning movements into and out of the site for the largest expected vehicle, a 48-foot delivery truck for Lucky grocery, was reviewed with the proposed layout. It is understood that currently the delivery vehicles use the driveways on either side of the project site. As such, the path to and from the dock area to these two driveways was reviewed; however, it is acknowledged that routing delivery trucks through residential parking areas is undesirable. Based on the review of the turning movements through the site, the 48-foot delivery trucks would be able to navigate to and from the two most westerly driveways (Driveway 1 and Driveway 2) to the dock area for the shopping center. Truck turning movement exhibits are enclosed.

Of the two most westerly driveways, Driveway 1 and Driveway 2, the wider Driveway 2 to the east of the project structure would be preferred for the commercial truck paths and it is recommended that Lucky store review the movements for accuracy. Presuming that this routing is acceptable, upon completion of the project trucks would use the wider driveway (No. 2) and no longer use the westerly driveway.

Conclusions and Recommendations

- The proposed project would generation an average of 1,213 daily vehicle trips; of which, 80 would occur during the morning peak and 98 during the evening peak. Compared to the retail land use that previously existed at the site, there would be a net trip reduction of 877 daily trips and 80 p.m. peak hour trips. A net increase of 27 trips would be expected during the a.m. peak hour.

- The transit facilities currently serving the site are adequate. The on-site pedestrian facilities are also adequate, but the pedestrian crossing at the project driveway (No. 2) and Fitzgerald Drive should be improved. The project applicant should work with the City to make improvements to this crossing. There are plans to install bicycle lanes on Fitzgerald Drive.

- Sight lines at the most westerly project driveway would be improved if the driveway were modified to be at grade with Fitzgerald Drive. At both project driveways, the vegetation should be low-lying, or no more than three feet about the elevation of the roadway.

- With the project-generated trips added to the existing volumes, the main project driveway (the second most westerly for the Pinole Vista Shopping Center), would not warrant a traffic signal.

- The largest expected delivery trucks for the shopping center would be able to navigate through the two most westerly shopping center driveways to access the loading dock area. It is recommended that Lucky staff review the movements and direct truck drivers to use the main driveway to avoid driving through residential parking.

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Mark E Spencer, TE
Senior Principal

REGISTERED PROFESSIONAL ENGINEER
MARK E. SPENCER
TR001737
TRAFFIC
STATE OF CALIFORNIA

MES/bkb/PIN003.L1

Enclosures: Level of Service Calculations
NCHRP Warrant Spreadsheet
Signal Warrants
On-Site Circulation Turning Movements

Intersection Level Of Service Report
Intersection 101: Fitzgerald Dr/ Project Driveway 1

Control Type:	Two-way stop	Delay (sec / veh)	12.9
Analysis Method	HCM 6th Edition	Level Of Service	B
Analysis Period	15 minutes	Volume to Capacity (v/c)	0.011

Intersection Setup

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	0	0	1	4	0	2	2	223	2	0	258	2
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1	5	0	3	3	290	3	0	335	3
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	1	0	1	1	73	1	0	84	1
Total Analysis Volume [veh/h]	0	0	1	5	0	3	3	290	3	0	335	3
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

v/c, Movement V/C Ratio	0.00	0.00	0.00	0.01	0.00	0.00	0.00			0.00		
d_M, Delay for Movement [s/veh]			9.12	12.89		9.35	7.95					
Movement LOS			A	B		A	A	A	A		A	A
95th-Percentile Queue Length [veh/ln]			0.00	0.04		0.04	0.01	0.00	0.00		0.00	0.00
95th-Percentile Queue Length [ft/ln]			0.09	1.09		1.09	0.19	0.00	0.00		0.00	0.00
d_A, Approach Delay [s/veh]	9.12			11.58			0.08			0.00		
Approach LOS	A			B			A			A		
d_I, Intersection Delay [s/veh]	0.20											
Intersection LOS	B											

Intersection Level Of Service Report
Intersection 102: Fitzgerald Dr/Project Driveway 2

Control Type:	Two-way stop	Delay (sec / veh):	12.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period	15 minutes	Volume to Capacity (v/c):	0.011

Intersection Setup

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	0		0	1		0	1		0
Entry Pocket Length [ft]	100.00						100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	9	0	4	4	0	3	2	210	18	4	247	5
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	12	0	5	5	0	4	3	273	21	5	321	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	0	1	1	0	1	1	68	5	1	80	2
Total Analysis Volume [veh/h]	12	0	5	5	0	4	3	273	21	5	321	7
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.00	0.01	0.01	0.00	0.00	0.02			0.00		
d_M, Delay for Movement [s/veh]	12.58		9.15	12.82		9.32	7.94			7.86		
Movement LOS	B		A	B		A	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.09		0.02	0.05		0.05	0.01	0.00	0.00	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.92		0.43	1.17		1.17	0.18	0.00	0.00	0.30	0.00	0.00
d_A, Approach Delay [s/veh]	11.65			11.20			0.08			0.12		
Approach LOS	B			B			A			A		
d_I, Intersection Delay [s/veh]	0.55											
Intersection LOS	B											

Intersection Level Of Service Report
Intersection 103: Fitzgerald Dr/Driveway 3

Control Type:	Signalized	Delay (sec / veh):	23.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period	15 minutes	Volume to Capacity (v/c):	0.151

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		1	0		0	1		0	1		0
Entry Pocket Length [ft]			100.00				100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	65	3	46	7	5	9	12	167	39	25	179	21
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	86	4	60	9	7	12	16	217	51	33	233	27
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	22	1	15	2	2	3	4	54	13	8	58	7
Total Analysis Volume [veh/h]	86	4	60	9	7	12	16	217	51	33	233	27
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_ds. Outbound Pedestrian Volume crossing major street	0									0		
v_di. Inbound Pedestrian Volume crossing major street	0									0		
v_co. Outbound Pedestrian Volume crossing minor street	0				0			0		0		
v_ci. Inbound Pedestrian Volume crossing minor street	0				0			0		0		
v_ab. Corner Pedestrian Volume [ped/h]	0				0			0		0		
Bicycle Volume [bicycles/h]	0				0			0		0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	
Offset Reference	
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group		4			8		5	2		1	6	
Auxiliary Signal Groups												
Lead / Lag							Lead			Lead		
Minimum Green [s]		6			6		4	6		4	6	
Maximum Green [s]		38			24		24	40		24	40	
Amber [s]		3.2			3.2		3.0	4.3		3.0	4.3	
All-red [s]		0.4			0.4		0.0	0.4		0.0	0.4	
Split [s]		39			39		15	48		18	51	
Vehicle Extension [s]		1.5			1.5		1.5	4.0		1.5	4.0	
Walk [s]		12			0			10			8	
Pedestrian Clearance [s]		20			0			16			10	
Delayed Vehicle Green [s]		0.0			0.0		0.0	0.0		0.0	0.0	
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
I2, Clearance Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]												
Detector Length [ft]												
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	C	L	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
t1_p, Permitted Start-Up Lost Time [s]	2.00		2.00						
t2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	7	43	43	43	43	43	43
g / C, Green / Cycle	0.07	0.07	0.07	0.41	0.41	0.41	0.41	0.41	0.41
(v / s)_i, Volume / Saturation Flow Rate	0.00	0.04	0.02	0.01	0.07	0.08	0.02	0.07	0.07
s, saturation flow rate [veh/h]	1675	1589	1779	1781	1870	1750	1781	1870	1803
c, Capacity [veh/h]	179	113	172	725	762	713	725	762	735
d1, Uniform Delay [s]	47.91	47.09	46.06	14.33	15.09	15.12	14.43	15.05	15.07
k, delay calibration	0.04	0.04	0.04	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.81	1.44	0.16	0.05	0.51	0.57	0.12	0.49	0.52
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.50	0.53	0.18	0.02	0.18	0.18	0.03	0.17	0.18
d, Delay for Lane Group [s/veh]	48.63	48.53	46.22	14.38	15.60	15.69	14.55	15.54	15.59
Lane Group LOS	D	D	D	B	B	B	B	B	B
Critical Lane Group	Yes	Yes		No	Yes	Yes	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	2.35	1.56	0.70	0.19	1.71	1.66	0.46	1.64	1.62
50th-Percentile Queue Length [ft/ln]	58.08	38.91	17.44	4.75	42.72	41.59	9.88	41.04	40.42
95th-Percentile Queue Length [veh/ln]	4.22	2.80	1.26	0.34	3.08	2.99	0.71	2.95	2.91
95th-Percentile Queue Length [ft/ln]	105.62	70.04	31.39	8.55	76.89	74.85	17.78	73.87	72.75

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	48.53	48.53	48.53	46.22	46.22	46.22	14.39	15.63	13.68	14.55	15.56	15.59
Movement LOS	D	D	D	D	D	D	B	B	B	B	B	B
d_A, Approach Delay [s/veh]	48.53			46.22			15.57			15.45		
Approach LOS	D			D			B			B		
d_I, Intersection Delay [s/veh]	23.22											
Intersection LOS	C											
Intersection V/C	0.151											

Other Modes

g_Walk,m, Effective Walk Time [s]	14.0	12.0		16.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00		0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00		0.00
d_p, Pedestrian Delay [s]	39.44	41.19		37.72
I_p,int, Pedestrian LOS Score for Intersection	2.023	1.758		2.428
Crosswalk LOS	B	A		B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	674	674	825	882
d_b, Bicycle Delay [s]	23.07	23.07	18.13	18.41
I_b,int, Bicycle LOS Score for Intersection	1.807	1.806	1.794	1.801
Bicycle LOS	A	A	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 104: Fitzgerald Dr/Driveway 4

Control Type:	Two-way stop	Delay (sec / veh):	10.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.213

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]			12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]			144			25	14	199	19	183	198	17
Base Volume Adjustment Factor			1.3000			1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]			2.00			2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]			0			0	0	0	0	0	0	0
Site-Generated Trips [veh/h]			0			0	0	0	0	0	0	0
Diverted Trips [veh/h]			0			0	0	0	0	0	0	0
Pass-by Trips [veh/h]			0			0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]			0			0	0	0	0	0	0	0
Other Volume [veh/h]			0			0	0	0	0	0	0	0
Total Hourly Volume [veh/h]			187			33	18	259	25	238	257	22
Peak Hour Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]			47			8	5	65	6	60	64	6
Total Analysis Volume [veh/h]			187			33	18	259	25	238	257	22
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio			0.21			0.04	0.01			0.18		
d_M, Delay for Movement [s/veh]			10.19			8.23	7.85			8.47		
Movement LOS			B			A	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]			0.80			0.12	0.04	0.00	0.00	0.68	0.00	0.00
95th-Percentile Queue Length [ft/ln]			20.08			2.91	1.07	0.00	0.00	17.12	0.00	0.00
d_A, Approach Delay [s/veh]	10.19			8.23			0.47			3.90		
Approach LOS	B			A			A			A		
d_I, Intersection Delay [s/veh]	4.28											
Intersection LOS	B											

Intersection Level Of Service Report
Intersection 105: Fitzgerald Dr/Driveway 5

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.005

Intersection Setup

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Approach			Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Right	Left	Right
Lane Width [ft]			12.00	12.00		12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]						
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]						
Speed [mph]			30.00		30.00	
Grade [%]			0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Base Volume Input [veh/h]			324	19		399
Base Volume Adjustment Factor			1.3000	1.3000		1.3000
Heavy Vehicles Percentage [%]			2.00	2.00		2.00
Growth Factor			1.0000	1.0000		1.0000
In-Process Volume [veh/h]			0	0		0
Site-Generated Trips [veh/h]			0	0		0
Diverted Trips [veh/h]			0	0		0
Pass-by Trips [veh/h]			0	0		0
Existing Site Adjustment Volume [veh/h]			0	0		0
Other Volume [veh/h]			0	0		0
Total Hourly Volume [veh/h]			421	25		519
Peak Hour Factor			1.0000	1.0000		1.0000
Other Adjustment Factor			1.0000	1.0000		1.0000
Total 15-Minute Volume [veh/h]			105	6		130
Total Analysis Volume [veh/h]			421	25		519
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme			Free		Free	
Flared Lane						
Storage Area [veh]						
Two-Stage Gap Acceptance						
Number of Storage Spaces in Median						

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio						
d_M, Delay for Movement [s/veh]						
Movement LOS			A	A		A
95th-Percentile Queue Length [veh/ln]			0.00	0.00		0.00
95th-Percentile Queue Length [ft/ln]			0.00	0.00		0.00
d_A, Approach Delay [s/veh]			0.00		0.00	
Approach LOS			A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 108: Fitzgerald Dr/Appian Wy

Control Type:	Signalized	Delay (sec / veh):	20.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.412

Intersection Setup

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	1		1	1		1	1		1
Entry Pocket Length [ft]	100.00			100.00		100.00	100.00		100.00	100.00		100.00
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	114	446	18	85	380	294	202	24	98	18	22	47
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	148	580	23	111	494	343	263	31	127	23	29	61
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	37	145	6	28	124	86	66	8	32	6	7	15
Total Analysis Volume [veh/h]	148	580	23	111	494	343	263	31	127	23	29	61
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing minor street	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Overla	Split	Split	Split	Split	Split	Split
Signal Group	5	2		1	6	5		4			8	
Auxiliary Signal Groups						5,6						
Lead / Lag	Lead			Lead								
Maximum Green [s]	13	10		11	10	13		9			10	
Maximum Green [s]	30	45		25	45	30		35			25	
Amber [s]	3.0	4.0		3.0	4.0	3.0		3.0			3.0	
All-red [s]	0.0	0.0		0.0	0.0	0.0		1.0			1.0	
Split [s]	17	35		12	34	17		22			18	
Vehicle Extension [s]	2.0	4.0		2.0	4.0	2.0		2.0			2.0	
Walk [s]		5			5			5			5	
Pedestrian Clearance [s]		17			25			28			33	
Delayed Vehicle Green [s]	0.0	0.0		0.0	0.0	0.0		0.0			0.0	
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
I2, Clearance Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	Yes		No	Yes	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]												
Detector Length [ft]												
I: Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_a, Permited Start-Up Lost Time [s]	2.00											
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	50	50	9	48	64	10	10	10	10	10	10
g / C, Green / Cycle	0.12	0.53	0.53	0.10	0.50	0.67	0.10	0.10	0.10	0.10	0.10	0.10
(v / s)_i Volume / Saturation Flow Rate	0.05	0.16	0.16	0.05	0.14	0.12	0.06	0.09	0.08	0.01	0.02	0.04
s, saturation flow rate [veh/h]	2752	1870	1845	1781	3089	2813	3459	1807	1599	1781	1870	1599
c, Capacity [veh/h]	357	987	974	178	1792	1883	360	188	165	178	188	160
d1, Uniform Delay [s]	40.24	12.68	12.68	38.59	8.65	1.77	34.87	38.87	38.00	38.02	39.12	40.05
k, delay calibration	0.04	0.50	0.50	0.04	0.50	0.04	0.04	0.04	0.04	0.04	0.04	0.04
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.27	0.81	0.82	1.34	0.38	0.03	0.46	0.89	2.62	0.12	0.14	0.56
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.40	0.31	0.31	0.53	0.28	0.18	0.54	0.54	0.77	0.13	0.15	0.38
d, Delay for Lane Group [s/veh]	40.50	13.49	13.50	40.94	8.04	1.79	39.34	39.76	42.72	38.14	39.26	40.61
Lane Group LOS	D	B	B	D	A	A	D	D	D	D	D	D
Critical Lane Group	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50th-Percentile Queue Length [veh/ln]	1.84	3.69	3.64	2.44	1.93	0.34	2.06	2.18	2.88	0.49	0.62	1.35
50th-Percentile Queue Length [ft/ln]	45.91	92.17	91.09	61.11	48.28	8.51	51.61	54.47	72.03	12.31	15.58	33.74
95th-Percentile Queue Length [veh/ln]	2.95	6.64	6.56	4.40	3.48	0.61	3.72	3.92	5.18	0.89	1.12	2.43
95th-Percentile Queue Length [ft/ln]	73.64	165.90	163.95	110.00	86.90	15.32	92.89	98.05	129.66	22.17	28.01	60.73

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	40.50	13.49	13.50	40.94	9.04	1.79	39.45	39.76	42.72	39.14	39.26	40.61
Movement LOS	D	B	B	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	18.82			10.15			40.49			39.96		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	20.29											
Intersection LOS	C											
Intersection V/C	0.412											

Other Modes

g_Walk,ns, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft^2/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft^2/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	38.88	38.88	38.88	38.88
I_p,int, Pedestrian LOS Score for Intersection	2.684	2.955	2.821	2.265
Crosswalk LOS	B	C	C	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	853	631	379	294
d_b, Bicycle Delay [s]	21.61	22.29	31.20	34.58
I_b,int, Bicycle LOS Score for Intersection	2.178	2.347	2.254	1.746
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 101: Fitzgerald Dr/ Project Driveway 1

Control Type:	Two-way stop	Delay (sec / veh):	95.5
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.025

Intersection Setup

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	1	0	2	1	0	11	8	1132	7	3	813	1
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	0	3	1	0	14	10	1472	9	4	797	1
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	0	0	4	3	368	2	1	199	0
Total Analysis Volume [veh/h]	1	0	3	1	0	14	10	1472	9	4	797	1
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.00	0.01	0.01	0.00	0.02	0.01			0.01		
d_M, Delay for Movement [s/veh]	95.49		10.05	14.02		11.33	9.44			13.06		
Movement LOS	F		C	F		B	A	A	A	B	A	A
95th-Percentile Queue Length [veh/ln]	0.10		0.10	0.11		0.11	0.04	0.00	0.00	0.03	0.00	0.00
95th-Percentile Queue Length [ft/ln]	2.56		2.56	2.86		2.86	0.93	0.00	0.00	0.67	0.00	0.00
d_A, Approach Delay [s/veh]	35.91			14.18			0.08			0.07		
Approach LOS	E			B			A			A		
d_I, Intersection Delay [s/veh]	0.22											
Intersection LOS	F											

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Version 2021 (SP 0-6)

Intersection Level Of Service Report
Intersection 102: Fitzgerald Dr/Project Driveway 2

Control Type:	Two-way stop	Delay (sec / veh):	165.7
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.533

Intersection Setup

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	0		0	1		0	1		0
Entry Pocket Length [ft]	100.00						100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	17	1	17	10	1	13	11	1040	95	13	587	17
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	22	1	22	13	1	17	14	1352	124	17	763	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	6	0	6	3	0	4	4	338	31	4	191	6
Total Analysis Volume [veh/h]	22	1	22	13	1	17	14	1352	124	17	763	22
Pedestrian Volume [ped/h]	0			0			0			0		

Generated with PTV VISTRO

Version 2021 (SP 0-6)

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.53	0.03	0.09	0.18	0.03	0.03	0.02			0.04		
d_M, Delay for Movement [s/veh]	165.69	100.41	16.29	52.65	114.64	19.11	9.41			13.27		
Movement LOS	F	F	C	F	F	C	A	A	A	B	A	A
95th-Percentile Queue Length [veh/ln]	1.91	0.28	0.28	0.68	0.86	0.86	0.05	0.00	0.00	0.12	0.00	0.00
95th-Percentile Queue Length [ft/ln]	47.71	7.10	7.10	21.55	21.55	21.55	1.28	0.00	0.00	2.92	0.00	0.00
d_A, Approach Delay [s/veh]	81.20			40.45			0.09			0.24		
Approach LOS	F			E			A			A		
d_I, Intersection Delay [s/veh]	2.41											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 103: Fitzgerald Dr/Driveway 3

Control Type:	Signalized	Delay (sec / veh):	43.7
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.581

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		1	0		0	1		0	1		0
Entry Pocket Length [ft]			100.00				100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	122	4	118	44	6	28	34	942	92	60	403	42
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	159	5	153	57	8	36	44	1225	120	117	602	55
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	40	1	38	14	2	9	11	306	30	29	151	14
Total Analysis Volume [veh/h]	159	5	153	57	8	36	44	1225	120	117	602	55
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_ab: Outbound Pedestrian Volume crossing major street	0									0		
v_cb: Inbound Pedestrian Volume crossing major street	0									0		
v_cd: Outbound Pedestrian Volume crossing minor street	0				0			0		0		
v_ad: Inbound Pedestrian Volume crossing minor street	0				0			0		0		
v_ab: Corner Pedestrian Volume [ped/h]	0				0			0		0		
Bicycle Volume [bicycle/h]	0				0			0		0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	
Offset Reference	
Permissive Mode	Singleband
Lost time [s]	0.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group		4			6		5	2		1	8	
Auxiliary Signal Groups												
Lead / Lag							Lead			Lead		
Minimum Green [s]		6			6		4	6		4	6	
Maximum Green [s]		36			24		24	40		24	40	
Amber [s]		3.2			3.2		3.0	4.3		3.0	4.3	
All-red [s]		0.4			0.4		0.0	0.4		0.0	0.4	
Split [s]		39			39		15	46		18	51	
Vehicle Extension [s]		1.5			1.5		1.5	4.0		1.5	4.0	
Walk [s]		12			0			10			8	
Pedestrian Clearance [s]		20			0			16			10	
Delayed Vehicle Green [s]		0.0			0.0		0.0	0.0		0.0	0.0	
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
I2, Clearance Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]												
Detector Length [ft]												
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	B	C	L	C	C	L	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_j, Permitted Start-Up Lost Time [s]	2.00		2.00						
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	15	15	15	39	39	39	39	39	39
g / C, Green / Cycle	0.14	0.14	0.14	0.37	0.37	0.37	0.37	0.37	0.37
(v / s)_i Volume / Saturation Flow Rate	0.13	0.10	0.08	0.02	0.35	0.37	0.07	0.18	0.18
s, saturation flow rate [veh/h]	1274	1589	1316	1781	1870	1812	1781	1870	1816
c, Capacity [veh/h]	251	229	243	660	694	672	660	694	673
d1, Uniform Delay [s]	44.40	42.56	41.32	17.05	26.19	26.39	17.07	19.83	19.83
k, delay calibration	0.04	0.04	0.04	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.07	1.26	0.42	0.19	30.07	31.83	0.59	2.37	2.45
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.65	0.57	0.43	0.07	0.58	0.59	0.18	0.48	0.48
d, Delay for Lane Group [s/veh]	45.47	43.82	41.74	17.24	56.26	58.13	18.26	22.20	22.28
Lane Group LOS	D	D	D	B	E	E	B	C	C
Critical Lane Group	-							-	-
50th-Percentile Queue Length [veh/ln]	4.24	3.82	2.43	0.59	20.24	20.10	1.54	5.29	5.16
50th-Percentile Queue Length [ft/ln]	105.02	95.39	60.80	14.85	506.05	502.53	41.11	132.34	129.01
95th-Percentile Queue Length [veh/ln]	7.62	6.87	4.38	1.07	27.62	27.43	2.96	9.07	8.89
95th-Percentile Queue Length [ft/ln]	190.48	171.69	109.44	26.74	690.53	685.33	73.99	226.67	222.15

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	45.47	45.47	43.82	41.74	41.74	41.74	17.24	57.09	58.13	18.39	22.24	22.28
Movement LOS	D	D	D	D	D	D	B	E	E	B	C	C
d_A, Approach Delay [s/veh]	44.57			41.74			55.92			21.64		
Approach LOS	D			D			E			C		
d_I, Intersection Delay [s/veh]	43.70											
Intersection LOS	D											
Intersection V/C	0.561											

Other Modes

g_Walk,mi, Effective Walk Time [s]	14.0	12.0		16.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00		0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00		0.00
d_p, Pedestrian Delay [s]	39.43	41.19		37.72
I_p,int, Pedestrian LOS Score for Intersection	2.128	1.821		2.815
Crosswalk LOS	B	A		C
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	674	674	825	882
d_b, Bicycle Delay [s]	23.07	23.07	18.13	16.41
I_b,int, Bicycle LOS Score for Intersection	2.083	1.720	2.706	2.188
Bicycle LOS	B	A	B	B

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 104: Fitzgerald Dr/Driveway 4

Control Type:	Two-way stop	Delay (sec / veh):	26.5
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.563

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration		┌			┌			┐│└			┐│└	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]			12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]			209			94	37	1371	44	195	501	62
Base Volume Adjustment Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]			2.00			2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]			0			0	0	0	0	0	0	0
Site-Generated Trips [veh/h]			0			0	0	0	0	0	0	0
Diverted Trips [veh/h]			0			0	0	0	0	0	0	0
Pass-by Trips [veh/h]			0			0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]			0			0	0	0	0	0	0	0
Other Volume [veh/h]			0			0	0	0	0	0	0	0
Total Hourly Volume [veh/h]			209			94	37	1392	44	195	551	62
Peak Hour Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]			52			24	9	348	11	49	103	16
Total Analysis Volume [veh/h]			209			94	37	1392	44	195	551	62
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

v/c, Movement V/C Ratio			0.56			0.15	0.04			0.42		
d_M, Delay for Movement [s/veh]			26.46			11.59	9.26			18.04		
Movement LOS			D			B	A	A	A	C	A	A
95th-Percentile Queue Length [veh/ln]			3.32			0.51	0.13	0.00	0.00	2.02	0.00	0.00
95th-Percentile Queue Length [ft/ln]			82.93			12.82	3.29	0.00	0.00	50.45	0.00	0.00
d_A, Approach Delay [s/veh]	26.46			11.59			0.33			3.87		
Approach LOS	D			B			A			A		
d_I, Intersection Delay [s/veh]	3.90											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 105: Fitzgerald Dr/Driveway 5

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.016

Intersection Setup

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Approach			Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Right	Left	Right
Lane Width [ft]			12.00	12.00		12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]						
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]						
Speed [mph]			30.00		30.00	
Grade [%]			0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Base Volume Input [veh/h]			1257	23		750
Base Volume Adjustment Factor			1.3000	1.3000		1.3000
Heavy Vehicles Percentage [%]			2.00	2.00		2.00
Growth Factor			1.0000	1.0000		1.0000
In-Process Volume [veh/h]			0	0		0
Site-Generated Trips [veh/h]			0	0		0
Diverted Trips [veh/h]			0	0		0
Pass-by Trips [veh/h]			0	0		0
Existing Site Adjustment Volume [veh/h]			0	0		0
Other Volume [veh/h]			0	0		0
Total Hourly Volume [veh/h]			1634	30		975
Peak Hour Factor			1.0000	1.0000		1.0000
Other Adjustment Factor			1.0000	1.0000		1.0000
Total 15-Minute Volume [veh/h]			400	8		244
Total Analysis Volume [veh/h]			1634	30		975
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme		Free	Free
Flared Lane			
Storage Area [veh]			
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median			

Movement, Approach, & Intersection Results

v/c, Movement V/C Ratio						
d_M, Delay for Movement [s/veh]						
Movement LOS			A	A		A
95th-Percentile Queue Length [veh/ln]			0.00	0.00		0.00
95th-Percentile Queue Length [ft/ln]			0.00	0.00		0.00
d_A, Approach Delay [s/veh]			0.00		0.00	
Approach LOS			A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 105: Fitzgerald Dr/Appian Wy

Control Type:	Signalized	Delay (sec / veh):	35.2
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.766

Intersection Setup

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	1		1	1		1	1		1
Entry Pocket Length [ft]	100.00			100.00		100.00	100.00		100.00	100.00		100.00
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	252	850	33	81	490	455	840	82	225	30	37	33
Base Volume Adjustment Factor	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	328	1113	43	105	645	592	1092	120	423	47	48	43
Peak Hour Factor	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
Other Adjustment Factor	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
Total 15-Minute Volume [veh/h]	82	278	11	26	161	148	273	30	106	12	12	11
Total Analysis Volume [veh/h]	328	1113	43	105	645	592	1092	120	423	47	48	43
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_ab, Outbound Pedestrian Volume crossing major street	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street	0			0			0			0		
v_co Outbound Pedestrian Volume crossing minor street	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing minor street	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Overla	Split	Split	Split	Split	Split	Split
Signal Group	5	2		1	6	5		4			8	
Auxiliary Signal Groups						5,6						
Lead / Lag	Lead			Lead								
Maximum Green [s]	13	10		11	10	13		9			10	
Maximum Green [s]	30	45		35	45	30		35			35	
Amber [s]	3.0	4.0		3.0	4.0	3.0		3.0			3.0	
All red [s]	0.0	0.0		0.0	0.0	0.0		1.0			1.0	
Split [s]	18	38		14	34	18		45			25	
Vehicle Extension [s]	2.0	4.0		2.0	4.0	2.0		2.0			2.0	
Walk [s]		5			5			5			5	
Pedestrian Clearance [s]		17			25			28			33	
Delayed Vehicle Green [s]	0.0	0.0		0.0	0.0	0.0		0.0			0.0	
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
I2, Clearance Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	Yes		No	Yes	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]												
Detector Length [ft]												
I: Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

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Version 2021 (SP 0-6)

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ℓ1_s, Permitted Start-Up Lost Time [s]	2.00											
ℓ2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	14	50	50	10	46	64	35	35	35	10	10	10
g / C, Green / Cycle	0.12	0.42	0.42	0.08	0.38	0.53	0.29	0.29	0.29	0.08	0.08	0.08
(v / s)_i Volume / Saturation Flow Rate	0.12	0.31	0.31	0.09	0.18	0.21	0.23	0.23	0.27	0.03	0.03	0.03
s, saturation flow rate [veh/h]	2752	1870	1648	1781	3060	2813	3458	1806	1588	1781	1870	1589
c, Capacity [veh/h]	340	776	765	144	1350	1490	995	519	457	148	155	132
d1, Uniform Delay [s]	54.83	29.78	29.84	52.29	21.94	9.83	34.01	33.66	35.79	51.88	51.84	51.91
K, delay calibration	0.04	0.50	0.50	0.04	0.50	0.04	0.04	0.17	0.26	0.04	0.04	0.04
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.70	6.51	6.88	2.62	1.21	0.05	0.39	4.22	17.06	0.46	0.42	0.53
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.06	0.75	0.75	0.73	0.48	0.40	0.60	0.78	0.03	0.32	0.31	0.33
d, Delay for Lane Group [s/veh]	62.53	35.30	36.52	54.91	23.16	9.89	34.60	38.08	52.85	52.33	52.28	52.44
Lane Group LOS	E	D	D	D	C	A	C	D	D	D	D	D
Critical Lane Group	-	-	-	-	-	-	-	-	-	-	-	-
50th-Percentile Queue Length [veh/ln]	0.36	15.39	15.39	3.11	5.59	2.73	9.75	10.51	13.13	1.36	1.38	1.24
50th-Percentile Queue Length [ft/ln]	134.01	384.64	384.34	77.68	139.83	68.37	243.87	262.75	328.27	33.91	34.57	31.10
95th-Percentile Queue Length [veh/ln]	0.16	21.82	21.71	5.59	9.47	4.92	14.88	15.83	18.07	2.44	2.49	2.24
95th-Percentile Queue Length [ft/ln]	228.94	545.45	542.67	139.83	236.78	123.09	371.92	395.67	476.84	61.03	62.23	55.98

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Version 2021 (SP 0-6)

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	62.53	35.40	36.52	54.91	23.16	9.89	35.53	38.66	52.85	52.33	52.28	52.44
Movement LOS	E	D	D	D	C	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	42.15			19.79			43.20			52.34		
Approach LOS	D			B			D			D		
d_I, Intersection Delay [s/veh]	35.25											
Intersection LOS	D											
Intersection V/C	0.766											

Other Modes

g_Walk,m Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p Pedestrian Delay [s]	51.37	51.37	51.37	51.37
I_p int, Pedestrian LOS Score for Intersection	2.800	3.178	3.358	2.245
Crosswalk LOS	C	C	C	B
s_b Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b Capacity of the bicycle lane [bicycles/h]	556	500	683	350
d_b Bicycle Delay [s]	30.64	33.78	39.03	40.87
I_b int, Bicycle LOS Score for Intersection	2.784	2.667	4.257	1.787
Bicycle LOS	C	B	E	A

Sequence

Ring 1	1	2	4	6	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 101: Fitzgerald Dr/ Project Driveway 1

Control Type:	Two-way stop	Delay (sec / veh):	13.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period	15 minutes	Volume to Capacity (v/c)	0.012

Intersection Setup

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	0	0	1	4	0	2	2	223	2	0	258	2
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	11	0	13	0	0	0	0	6	4	5	16	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	0	14	5	0	3	3	298	7	5	351	3
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	0	4	1	0	1	1	74	2	1	88	1
Total Analysis Volume [veh/h]	11	0	14	5	0	3	3	298	7	5	351	3
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.00	0.02	0.01	0.00	0.00	0.00			0.00		
d_M, Delay for Movement [s/veh]	13.13		9.39	13.43		9.41	8.00			7.88		
Movement LOS	B		A	B		A	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.13		0.13	0.05		0.05	0.01	0.00	0.00	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	3.14		3.14	1.13		1.15	0.19	0.00	0.00	0.30	0.00	0.00
d_A, Approach Delay [s/veh]	11.04			11.93			0.08			0.11		
Approach LOS	B			B			A			A		
d_I, Intersection Delay [s/veh]	0.62											
Intersection LOS	B											

Intersection Level Of Service Report
Intersection 102: Fitzgerald Dr/Project Driveway 2

Control Type:	Two-way stop	Delay (sec / veh):	13.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.062

Intersection Setup

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	0		0	1		0	1		0
Entry Pocket Length [ft]	100.00						100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	9	0	4	4	0	3	2	210	16	4	247	5
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	15	0	19	0	0	0	0	13	8	7	5	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	26	0	24	5	0	4	3	286	27	12	326	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	0	6	1	0	1	1	72	7	3	82	2
Total Analysis Volume [veh/h]	26	0	24	5	0	4	3	286	27	12	326	7
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.09	0.00	0.03	0.01	0.00	0.00	0.03			0.01		
d_M, Delay for Movement [s/veh]	13.47		9.33	13.38		9.35	7.95			7.92		
Movement LOS	B		A	B		A	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.20		0.09	0.03		0.03	0.01	0.00	0.00	0.03	0.00	0.00
95th-Percentile Queue Length [ft/ln]	4.92		2.15	1.23		1.23	0.18	0.00	0.00	0.73	0.00	0.00
d_A, Approach Delay [s/veh]	11.55			11.58			0.08			0.28		
Approach LOS	B			B			A			A		
d_I, Intersection Delay [s/veh]	1.14											
Intersection LOS	B											

Intersection Level Of Service Report
Intersection 103: Fitzgerald Dr/Driveway 3

Control Type:	Signalized	Delay (sec / veh):	22.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.159

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		1	0		0	1		0	1		0
Entry Pocket Length [ft]			100.00				100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	60	3	40	7	5	9	12	187	39	25	179	21
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	32	0	0	12	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Passby Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	66	4	50	8	7	12	16	248	51	33	245	27
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	22	1	15	2	2	3	4	62	13	8	61	7
Total Analysis Volume [veh/h]	66	4	50	8	7	12	16	248	51	33	245	27
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_dx, Outbound Pedestrian Volume crossing major stree	0									0		
v_dy, Inbound Pedestrian Volume crossing major street	0									0		
v_cx, Outbound Pedestrian Volume crossing minor stree	0				0			0		0		
v_cy, Inbound Pedestrian Volume crossing minor street	0				0			0		0		
v_ab, Corner Pedestrian Volume [ped/h]	0				0			0		0		
Bicycle Volume [bicycles/h]	0				0			0		0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	
Offset Reference	
Permissive Mode	Singleband
Lost time [s]	0.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group		4			8		5	2		1	6	
Auxiliary Signal Groups												
Lead / Lag							Lead			Lead		
Minimum Green [s]		6			5		4	6		4	6	
Maximum Green [s]		36			24		24	40		24	40	
Amber [s]		3.2			3.2		3.0	4.3		3.0	4.3	
All-red [s]		0.4			0.4		0.0	0.4		0.0	0.4	
Split [s]		39			39		15	49		18	51	
Vehicle Extension [s]		1.5			1.5		1.5	4.0		1.5	4.0	
Walk [s]		12			0			10			8	
Pedestrian Clearance [s]		20			0			16			10	
Delayed Vehicle Green [s]		0.0			0.0		0.0	0.0		0.0	0.0	
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
I2, Clearance Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]												
Detector Length [ft]												
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	C	L	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00		2.00						
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	7	43	43	43	43	43	43
g / C, Green / Cycle	0.07	0.07	0.07	0.41	0.41	0.41	0.41	0.41	0.41
(v / s)_i Volume / Saturation Flow Rate	0.00	0.04	0.02	0.01	0.08	0.08	0.02	0.07	0.07
s, saturation flow rate [veh/h]	1575	1589	1770	1781	1870	1782	1781	1870	1805
c, Capacity [veh/h]	178	113	172	725	762	718	725	762	736
d1, Uniform Delay [s]	47.81	47.09	46.96	14.33	15.21	15.24	14.43	15.10	15.11
k, delay calibration	0.04	0.04	0.04	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.81	1.44	6.10	0.05	0.59	0.65	0.12	0.52	0.55
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.50	0.53	0.15	0.02	0.20	0.21	0.05	0.18	0.18
d, Delay for Lane Group [s/veh]	48.63	48.53	46.22	14.38	15.80	15.88	14.55	15.61	15.66
Lane Group LOS	D	D	D	B	B	B	B	B	B
Critical Lane Group	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50th-Percentile Queue Length [veh/ln]	2.35	1.56	6.70	0.19	1.93	1.88	0.40	1.72	1.70
50th-Percentile Queue Length [ft/ln]	58.68	38.81	167.44	4.75	48.20	46.93	9.88	43.00	42.41
95th-Percentile Queue Length [veh/ln]	4.22	2.88	1.26	0.34	3.47	3.38	0.71	3.10	3.05
95th-Percentile Queue Length [ft/ln]	105.62	70.04	31.39	8.55	86.75	84.48	17.78	77.50	76.34

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Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	48.63	48.53	48.53	46.22	46.22	46.22	14.39	15.83	15.88	14.55	15.63	15.65
Movement LOS	D	D	D	D	D	D	B	B	B	B	B	B
d_A, Approach Delay [s/veh]	48.59			46.22			15.26			15.53		
Approach LOS	D			D			B			B		
d_I, Intersection Delay [s/veh]	22.93											
Intersection LOS	C											
Intersection V/C	0.159											

Other Modes

g_Walk,mi, Effective Walk Time [s]	14.0	12.0		15.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00		0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00		0.00
d_p, Pedestrian Delay [s]	38.44	41.18		37.72
I_p,int, Pedestrian LOS Score for Intersection	2.023	1.758		2.437
Crosswalk LOS	B	A		B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	674	674	825	882
d_b, Bicycle Delay [s]	23.07	23.07	18.13	18.41
I_b,int, Bicycle LOS Score for Intersection	1.807	1.606	1.820	1.811
Bicycle LOS	A	A	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Intersection Level Of Service Report
Intersection 104: Fitzgerald Dr/Driveway 4

Control Type:	Two-way stop	Delay (sec / veh):	10.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.218

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration		┌			┌			┐│└			┐│└	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]			12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]			144			25	14	199	19	183	198	17
Base Volume Adjustment Factor			1.3000			1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]			2.00			2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]			0			0	0	0	0	0	0	0
Site-Generated Trips [veh/h]			0			0	0	32	0	0	12	0
Diverted Trips [veh/h]			0			0	0	0	0	0	0	0
Pass-by Trips [veh/h]			0			0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]			0			0	0	0	0	0	0	0
Other Volume [veh/h]			0			0	0	0	0	0	0	0
Total Hourly Volume [veh/h]			187			33	18	291	25	238	269	22
Peak Hour Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]			47			8	5	73	6	60	67	6
Total Analysis Volume [veh/h]			187			33	18	291	25	238	269	22
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop		Stop		Free		Free	
Flared Lane								
Storage Area [veh]								
Two-Stage Gap Acceptance	No		No					
Number of Storage Spaces in Median								

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio			0.22			0.04	0.01			0.19		
d_M, Delay for Movement [s/veh]			10.35			9.27	7.68			8.59		
Movement LOS			B			A	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]			0.83			0.12	0.04	0.00	0.00	0.71	0.00	0.00
95th-Percentile Queue Length [ft/ln]			20.66			2.94	1.08	0.00	0.00	17.75	0.00	0.00
d_A, Approach Delay [s/veh]	10.35			9.27			0.42			3.88		
Approach LOS	B			A			A			A		
d_I, Intersection Delay [s/veh]	4.09											
Intersection LOS	B											

Intersection Level Of Service Report
Intersection 105: Fitzgerald Dr/Driveway 5

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.005

Intersection Setup

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Approach			Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Right	Left	Right
Lane Width [ft]			12.00	12.00		12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]						
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]						
Speed [mph]			30.00		30.00	
Grade [%]			0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Base Volume Input [veh/h]			324	19		399
Base Volume Adjustment Factor			1.0000	1.0000		1.0000
Heavy Vehicles Percentage [%]			2.00	2.00		2.00
Growth Factor			1.0000	1.0000		1.0000
In-Process Volume [veh/h]			0	0		0
Site-Generated Trips [veh/h]			32	0		12
Diverted Trips [veh/h]			0	0		0
Pass-by Trips [veh/h]			0	0		0
Existing Site Adjustment Volume [veh/h]			0	0		0
Other Volume [veh/h]			0	0		0
Total Hourly Volume [veh/h]			453	25		531
Peak Hour Factor			1.0000	1.0000		1.0000
Other Adjustment Factor			1.0000	1.0000		1.0000
Total 15-Minute Volume [veh/h]			113	6		133
Total Analysis Volume [veh/h]			453	25		531
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme		Free	Free
Flared Lane			
Storage Area [veh]			
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median			

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio						
d_M, Delay for Movement [s/veh]						
Movement LOS			A	A		A
95th-Percentile Queue Length [veh/ln]			0.00	0.00		0.00
95th-Percentile Queue Length [ft/ln]			0.00	0.00		0.00
d_A, Approach Delay [s/veh]		0.00			0.00	
Approach LOS		A			A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 195: Fitzgerald Dr/Appian Wy

Control Type:	Signalized	Delay (sec / veh):	20.7
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.421

Intersection Setup

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	1		1	1		1	1		1
Entry Pocket Length [ft]	100.00			100.00		100.00	100.00		100.00	100.00		100.00
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

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Volumes

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	114	448	18	85	360	204	202	24	38	18	22	42
Base Volume Adjustment Factor	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000	1,3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	0	0	0	0	8	21	0	11	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Passby Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	152	590	23	111	494	351	284	31	138	23	29	61
Peak Hour Factor	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
Other Adjustment Factor	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
Total 15-Minute Volume [veh/h]	38	148	6	28	124	88	71	8	35	6	7	15
Total Analysis Volume [veh/h]	152	590	23	111	494	351	284	31	138	23	29	61
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_pe: Outbound Pedestrian Volume crossing major street	0			0			0			0		
v_pi: Inbound Pedestrian Volume crossing major street	0			0			0			0		
v_pa: Outbound Pedestrian Volume crossing minor street	0			0			0			0		
v_pi: Inbound Pedestrian Volume crossing minor street	0			0			0			0		
v_ab: Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

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Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	Singleband
Lost time [s]	16.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Overla	Split	Split	Split	Split	Split	Split
Signal Group	5	2		1	6	5		4			8	
Auxiliary Signal Groups						5,6						
Lead / Lag	Lead			Lead								
Minimum Green [s]	13	10		13	10	13		9			10	
Maximum Green [s]	30	45		30	45	30		35			25	
Amber [s]	3.0	4.0		3.0	4.0	3.0		3.0			3.0	
All red [s]	0.0	0.0		0.0	0.0	0.0		1.0			1.0	
Split [s]	17	35		13	34	17		22			18	
Vehicle Extension [s]	2.0	4.0		2.0	4.0	2.0		2.0			2.0	
Walk [s]		5			5			5			5	
Pedestrian Clearance [s]		17			25			28			33	
Delayed Vehicle Green [s]	0.0	0.0		0.0	0.0	0.0		0.0			0.0	
Rest In Walk		No			No			No			No	
l1, Start-Up Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
l2, Clearance Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	Yes		No	Yes	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]												
Detector Length [ft]												
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	85	85	85	85	85	85	85	85	85	85	85	85
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_s, Permitted StartUp Lost Time [s]	2.00											
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	50	50	9	47	63	10	10	10	10	10	10
g / C, Green / Cycle	0.12	0.52	0.52	0.10	0.50	0.66	0.11	0.11	0.11	0.10	0.10	0.10
(v / s)_i, Volume / Saturation Flow Rate	0.08	0.16	0.16	0.08	0.14	0.12	0.09	0.05	0.09	0.01	0.02	0.04
s, saturation flow rate [vehh]	2752	1870	1845	1781	3583	2413	3458	1806	1589	1781	1870	1589
c, Capacity [vehh]	367	974	961	178	1766	1584	384	200	176	179	188	160
d1, Uniform Delay [s]	40.07	13.05	13.08	38.59	8.06	1.97	39.31	39.31	39.46	39.02	39.12	40.05
k, delay calibration	0.04	0.50	0.50	0.04	0.50	0.04	0.04	0.04	0.04	0.04	0.04	0.04
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.28	0.83	0.85	1.34	0.40	0.02	0.44	0.84	2.85	0.12	0.14	0.56
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.41	0.31	0.31	0.63	0.28	0.19	0.54	0.54	0.79	0.13	0.15	0.38
d, Delay for Lane Group [s/veh]	40.55	13.89	13.90	40.94	8.45	1.99	39.75	39.15	42.32	39.14	39.28	40.61
Lane Group LOS	D	B	B	D	A	A	D	D	D	D	D	D
Critical Lane Group	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50th-Percentile Queue Length [veh/ln]	1.68	3.76	3.71	2.44	2.00	0.38	2.19	2.31	3.12	0.49	0.62	1.35
50th-Percentile Queue Length [ft/ln]	42.07	93.94	92.84	61.11	49.94	9.58	54.83	57.81	77.88	12.31	15.58	33.74
95th-Percentile Queue Length [veh/ln]	3.03	6.76	6.68	4.40	3.60	0.69	3.95	4.15	5.61	0.89	1.12	2.43
95th-Percentile Queue Length [ft/ln]	75.72	168.99	167.10	110.00	89.89	17.25	98.79	104.05	140.21	22.17	28.01	60.73

Movement, Approach, & Intersection Results

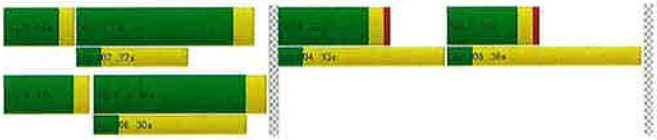
d_M, Delay for Movement [s/veh]	40.55	13.90	13.90	40.94	8.45	1.99	39.85	39.15	42.32	39.14	39.26	40.61
Movement LOS	D	B	B	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	19.26			10.37			39.93			39.96		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	20.67											
Intersection LOS	C											
Intersection V/C	0.421											

Other Modes

g_Walk min, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft^2/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft^2/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	38.98	38.98	38.98	38.98
I_p,int, Pedestrian LOS Score for Intersection	2.686	2.959	2.833	2.203
Crosswalk LOS	B	C	C	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	652	631	378	294
d_b, Bicycle Delay [s]	21.61	22.29	31.20	34.58
I_b,int, Bicycle LOS Score for Intersection	2.182	2.348	2.307	1.746
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Intersection Level Of Service Report
Intersection 101: Fitzgerald Dr/ Project Driveway 1

Control Type:	Two-way stop	Delay (sec / veh):	128.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.279

Intersection Setup

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 1			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	1	0	2	1	0	11	8	1132	7	3	613	1
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	8	0	6	0	0	0	0	22	14	10	14	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	0	8	1	0	14	10	1494	23	14	811	1
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	0	2	0	0	4	3	374	6	4	203	0
Total Analysis Volume [veh/h]	10	0	8	1	0	14	10	1494	23	14	811	1
Pedestrian Volume [ped/h]	0			0			0			0		

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Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

v/c, Movement V/C Ratio	0.28	0.09	0.03	0.02	0.00	0.02	0.01			0.03		
d_M, Delay for Movement [s/veh]	129.09		33.88	50.91		11.43	0.50			13.53		
Movement LOS	F		E	F		B	A	A	A	B	A	A
95th-Percentile Queue Length [veh/ln]	1.09		1.09	0.12		0.12	0.04	0.00	0.00	0.10	0.00	0.00
95th-Percentile Queue Length [ft/ln]	27.37		27.37	3.01		3.01	0.94	0.00	0.00	2.48	0.00	0.00
d_A, Approach Delay [s/veh]	86.36			14.66			0.06			0.23		
Approach LOS	F			B			A			A		
d_I, Intersection Delay [s/veh]	0.90											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 102: Fitzgerald Dr/Project Driveway 2

Control Type:	Two-way stop	Delay (sec / veh):	306.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.979

Intersection Setup

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	0		0	1		0	1		0
Entry Pocket Length [ft]	100.00						100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Project Driveway 2			Motel Driveway			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	17	1	17	10	1	13	11	1040	95	13	587	17
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	14	0	8	0	0	0	0	8	22	14	10	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	36	1	31	13	1	17	14	1358	146	31	773	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	9	0	8	3	0	4	4	340	37	8	193	6
Total Analysis Volume [veh/h]	36	1	31	13	1	17	14	1358	146	31	773	22
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No	No		
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

v/c, Movement V/C Ratio	0.95	0.03	0.09	0.20	0.03	0.03	0.02			0.07		
d_M, Delay for Movement [s/veh]	305.05	112.41	16.95	71.84	131.41	21.59	9.45			13.77		
Movement LOS	F	F	C	F	F	C	A	A	A	B	A	A
95th-Percentile Queue Length [veh/ln]	3.03	0.39	0.39	0.58	0.58	0.58	0.05	0.00	0.00	0.20	0.00	0.00
95th-Percentile Queue Length [ft/ln]	90.97	9.83	9.83	24.60	24.60	24.60	1.30	0.00	0.00	5.04	0.00	0.00
d_A, Approach Delay [s/veh]	171.40			48.20			0.09			0.52		
Approach LOS	F			E			A			A		
d_I, Intersection Delay [s/veh]	5.59											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 103: Fitzgerald Dr/Driveway 3

Control Type:	Signalized	Delay (sec / veh):	45.1
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.585

Intersection Setup

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		1	0		0	1		0	1		0
Entry Pocket Length [ft]			100.00				100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name	Sh Ce						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	122	4	118	44	0	28	34	942	92	90	463	42
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	15	0	0	24	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	159	5	153	57	0	36	44	1240	120	117	626	55
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	40	1	38	14	2	9	11	310	30	29	157	14
Total Analysis Volume [veh/h]	159	5	153	57	0	36	44	1240	120	117	626	55
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_dx, Outbound Pedestrian Volume crossing major street	0									0		
v_dy, Inbound Pedestrian Volume crossing major street	0									0		
v_cx, Outbound Pedestrian Volume crossing minor street	0				0			0		0		
v_cy, Inbound Pedestrian Volume crossing minor street	0				0			0		0		
v_ab, Corner Pedestrian Volume [ped/h]	0				0			0		0		
Bicycle Volume [bicycles/h]	0				0			0		0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	
Offset Reference	
Permissive Mode	Singleband
Lost time [s]	0.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group		4			8		5	2		1	6	
Auxiliary Signal Groups												
Lead / Lag							Lead			Lead		
Minimum Green [s]		6			6		4	6		4	6	
Maximum Green [s]		36			24		24	40		24	40	
Amber [s]		3.2			3.2		3.0	4.3		3.0	4.3	
All red [s]		0.4			0.4		0.0	0.4		0.0	0.4	
Split [s]		39			39		15	48		18	51	
Vehicle Extension [s]		1.5			1.5		1.5	4.0		1.5	4.0	
Walk [s]		12			0			10			8	
Pedestrian Clearance [s]		20			0			16			10	
Delayed Vehicle Green [s]		0.0			0.0		0.0	0.0		0.0	0.0	
Rest in Walk		No			No			No			No	
I1, Start-Up Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
I2, Clearance Lost Time [s]		2.0			2.0		2.0	2.0		2.0	2.0	
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]												
Detector Length [ft]												
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	9
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	B	C	L	C	C	L	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00		2.00						
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	15	15	15	39	39	39	39	39	39
g / C, Green / Cycle	0.14	0.14	0.14	0.37	0.37	0.37	0.37	0.37	0.37
(v / s)_i, Volume / Saturation Flow Rate	0.13	0.10	0.08	0.02	0.37	0.37	0.07	0.18	0.18
s, saturation flow rate [veh/h]	1274	1589	1316	1781	1870	1813	1781	1870	1817
c, Capacity [veh/h]	251	229	243	660	694	672	660	694	674
d1, Uniform Delay [s]	44.40	42.56	41.32	17.05	26.40	26.51	17.57	18.84	18.89
k, delay calibration	0.04	0.04	0.04	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.07	1.26	0.42	0.19	32.44	34.38	0.59	2.54	2.62
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.65	0.67	0.42	0.07	0.99	1.00	0.18	0.50	0.50
d, Delay for Lane Group [s/veh]	45.47	43.82	41.74	17.24	58.84	60.90	18.26	22.52	22.69
Lane Group LOS	D	D	D	B	E	E	B	C	C
Critical Lane Group	-	-	-	-	-	-	-	-	-
50th-Percentile Queue Length [veh/ln]	4.24	3.82	2.43	0.59	21.01	20.90	1.64	5.53	5.40
50th-Percentile Queue Length [ft/ln]	106.02	95.38	60.80	14.85	525.14	522.48	41.11	138.28	134.89
95th-Percentile Queue Length [veh/ln]	7.62	6.87	4.38	1.07	28.52	28.39	2.95	9.39	9.21
95th-Percentile Queue Length [ft/ln]	190.48	171.69	109.44	26.74	713.05	709.87	73.99	234.71	230.13

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	45.47	45.47	43.82	41.74	41.74	41.74	17.24	59.75	60.90	18.26	22.56	22.60
Movement LOS	D	D	D	D	D	D	B	E	E	B	C	C
d_A, Approach Delay [s/veh]	44.67			41.74			59.52			21.93		
Approach LOS	D			D			E			C		
d_I, Intersection Delay [s/veh]	45.05											
Intersection LOS	D											
Intersection V/C	0.585											

Other Modes

g_Walk,m, Effective Walk Time [s]	14.0	12.0		16.0
M_corner, Corner Circulation Area [ft^2/ped]	0.00	0.00		0.00
M_CW, Crosswalk Circulation Area [ft^2/ped]	0.00	0.00		0.00
d_p, Pedestrian Delay [s]	39.43	41.19		37.72
I_p,int, Pedestrian LOS Score for Intersection	2.128	1.821		2.822
Crosswalk LOS	B	A		C
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	674	674	825	882
d_b, Bicycle Delay [s]	23.07	23.07	18.13	18.41
I_b,int, Bicycle LOS Score for Intersection	2.083	1.728	2.718	2.218
Bicycle LOS	B	A	B	B

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 104: Fitzgerald Dr/Driveway 4

Control Type:	Two-way stop	Delay (sec / veh):	27.0
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period	15 minutes	Volume to Capacity (v/c):	0.568

Intersection Setup

Name	Sh Ca						Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]			12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0		0	0		0	1		0	1		0
Entry Pocket Length [ft]							100.00			100.00		
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Sh Ca						Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]			209			84	37	1071	44	195	501	62
Base Volume Adjustment Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]			2.00			2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]			0			0	0	0	0	0	0	0
Site-Generated Trips [veh/h]			0			0	0	15	0	0	24	0
Diverted Trips [veh/h]			0			0	0	0	0	0	0	0
Pass-by Trips [veh/h]			0			0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]			0			0	0	0	0	0	0	0
Other Volume [veh/h]			0			0	0	0	0	0	0	0
Total Hourly Volume [veh/h]			209			84	37	1401	44	195	675	62
Peak Hour Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor			1.0000			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]			52			24	9	352	11	49	169	16
Total Analysis Volume [veh/h]			209			84	37	1401	44	195	675	62
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]				
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median				

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio			0.57			0.15	0.04			0.42		
d_M, Delay for Movement [s/veh]			20.68			11.73	8.35			18.34		
Movement LOS			D			B	A	A	A	C	A	A
95th-Percentile Queue Length [veh/ln]			3.38			0.52	0.13	0.00	0.00	3.06	0.00	0.00
95th-Percentile Queue Length [ft/ln]			84.58			13.09	3.35	0.00	0.00	81.49	0.00	0.00
d_A, Approach Delay [s/veh]	25.68			11.73			0.23			3.64		
Approach LOS	D			B			A			A		
d_I, Intersection Delay [s/veh]	3.40											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 105: Fitzgerald Dr/Driveway 5

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.016

Intersection Setup

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Approach			Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Right	Left	Right
Lane Width [ft]			12.00	12.00		12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]						
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]						
Speed [mph]			30.00		30.00	
Grade [%]			0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Driveway 5		Fitzgerald Dr		Fitzgerald Dr	
Base Volume Input [veh/h]			1257	23		750
Base Volume Adjustment Factor			1.3000	1.3000		1.3000
Heavy Vehicles Percentage [%]			2.00	2.00		2.00
Growth Factor			1.0000	1.0000		1.0000
In-Process Volume [veh/h]			0	0		0
Site-Generated Trips [veh/h]			15	0		24
Diverted Trips [veh/h]			0	0		0
Pass-by Trips [veh/h]			0	0		0
Existing Site Adjustment Volume [veh/h]			0	0		0
Other Volume [veh/h]			0	0		0
Total Hourly Volume [veh/h]			1649	30		999
Peak Hour Factor			1.0000	1.0000		1.0000
Other Adjustment Factor			1.0000	1.0000		1.0000
Total 15-Minute Volume [veh/h]			412	8		250
Total Analysis Volume [veh/h]			1649	30		999
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme		Free	Free
Flared Lane			
Storage Area [veh]			
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median			

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio						
d_M, Delay for Movement [s/veh]						
Movement LOS			A	A		A
95th-Percentile Queue Length [vehicle]			0.00	0.00		0.00
95th-Percentile Queue Length [ft/ln]			0.00	0.00		0.00
d_A, Approach Delay [s/veh]			0.00		0.00	
Approach LOS			A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 106: Fitzgerald Dr/Appian Wy

Control Type:	Signalized	Delay (sec / veh):	35.6
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.770

Intersection Setup

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1		0	1		1	1		1	1		1
Entry Pocket Length [ft]	100.00			100.00		100.00	100.00		100.00	100.00		100.00
No. of Lanes in Exit Pocket	0		0	0		0	0		0	0		0
Exit Pocket Length [ft]												
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Appian Way			Appian Way			Fitzgerald Dr			Fitzgerald Dr		
Base Volume Input [veh/h]	252	856	33	81	486	455	840	82	325	38	37	33
Base Volume Adjustment Factor	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000	1.3000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	18	10	0	5	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]			0			0			0			0
Total Hourly Volume [veh/h]	336	1113	43	105	645	608	1102	120	428	47	48	43
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	84	278	11	26	161	152	276	30	107	12	12	11
Total Analysis Volume [veh/h]	336	1113	43	105	645	608	1102	120	428	47	48	43
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]												
Local Bus Stopping Rate [/h]			0			0			0			0
v_do, Outbound Pedestrian Volume crossing major street	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street	0			0			0			0		
v_co Outbound Pedestrian Volume crossing minor street	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing minor street	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycle/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fully actuated
Offset [s]	8.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	Single Band
Lost time [s]	16.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Overla	Split	Split	Split	Split	Split	Split
Signal Group	5	2		1	6	5		4			8	
Auxiliary Signal Groups						5,6						
Lead / Lag	Lead			Lead								
Minimum Green [s]	13	10		13	10	13		9			10	
Maximum Green [s]	30	45		25	45	30		35			25	
Amber [s]	3.0	4.0		3.0	4.0	3.0		3.0			3.0	
All-red [s]	0.0	0.0		0.0	0.0	0.0		1.0			1.0	
Split [s]	18	38		14	34	18		45			25	
Vehicle Extension [s]	2.0	4.0		2.0	4.0	2.0		2.0			2.0	
Walk [s]		5			5			5			5	
Pedestrian Clearance [s]		17			25			28			33	
Delayed Vehicle Green [s]	0.0	0.0		0.0	0.0	0.0		0.0			0.0	
Rest In Walk		No			No			No			No	
l1, Start-Up Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
l2, Clearance Lost Time [s]	2.0	2.0		2.0	2.0	2.0		2.0			2.0	
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	Yes		No	Yes	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]												
Detector Length [ft]												
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Generated with PTV VISTRO
Version 2021 (SP 0-6)

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00											
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	14	50	50	10	45	63	35	35	35	10	10	10
g / C, Green / Cycle	0.12	0.41	0.41	0.08	0.38	0.53	0.29	0.29	0.29	0.08	0.08	0.08
(v / s)_i Volume / Saturation Flow Rate	0.12	0.31	0.31	0.08	0.18	0.22	0.23	0.23	0.27	0.03	0.03	0.03
s, saturation flow rate [vehh]	2752	1870	1846	1781	3560	2813	3468	1806	1589	1781	1870	1589
c, Capacity [vehh]	340	771	761	144	1349	1481	1005	525	462	148	155	132
d1, Uniform Delay [s]	54.98	30.09	30.14	52.28	22.23	10.09	33.72	33.57	35.56	51.88	51.84	51.91
k, delay calibration	0.04	0.50	0.50	0.04	0.50	0.04	0.04	0.17	0.27	0.04	0.04	0.04
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	11.21	6.72	5.80	2.62	1.24	0.07	0.56	4.27	17.50	0.46	0.42	0.53
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.99	0.75	0.76	0.73	0.48	0.41	0.80	0.78	0.03	0.32	0.31	0.33
d, Delay for Lane Group [s/veh]	68.17	36.82	37.04	54.91	23.47	10.18	34.30	37.84	53.06	52.33	52.28	52.44
Lane Group LOS	E	D	D	D	C	B	C	D	D	D	D	D
Critical Lane Group	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
50th-Percentile Queue Length [veh/ln]	5.65	15.50	15.41	3.11	5.65	2.87	9.79	10.56	13.32	1.38	1.38	1.24
50th-Percentile Queue Length [ft/ln]	141.20	387.59	385.38	77.88	141.31	71.83	244.82	264.05	333.10	33.91	34.57	31.10
95th-Percentile Queue Length [veh/ln]	9.55	21.96	21.85	5.59	9.55	5.16	14.93	15.89	19.31	2.44	2.49	2.24
95th-Percentile Queue Length [ft/ln]	238.04	549.03	546.33	139.83	238.78	128.94	373.13	397.30	482.76	61.03	62.23	55.98

Generated with PTV VISTRO
Version 2021 (SP 0-6)

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	68.17	36.82	37.04	54.91	23.47	10.18	35.25	37.84	53.06	52.33	52.28	52.44
Movement LOS	E	D	D	D	C	B	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	43.51			19.94			40.86			52.34		
Approach LOS	D			B			D			D		
d_I, Intersection Delay [s/veh]	35.65											
Intersection LOS	D											
Intersection V/C	0.770											

Other Modes

g_Walk,ns Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner Corner Circulation Area [ft^2/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft^2/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.37	51.37	51.37	51.37
I_p,int, Pedestrian LOS Score for Intersection	2.893	3.181	3.375	2.245
Crosswalk LOS	C	C	C	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	566	500	683	350
d_b, Bicycle Delay [s]	39.64	33.78	29.03	40.87
I_b,int, Bicycle LOS Score for Intersection	2.781	2.880	4.282	1.787
Bicycle LOS	C	B	E	A

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TCRP Report 112 - NCHRP Report 562 - Pedestrian Crossing Treatment Worksheet
Worksheet 1: Peak-Hour, 35 MPH or Less

Analyst and Site Information

Analyst: Allison Woodworth	Major Street: Fitzgerald Dr
Analysis Date: 4-Nov-20	Minor Street or Location: Pinole, CA
Data Collection Date: 22-Oct-20	Peak Hour: 5:00 - 6:00 p.m.

Step 1: Select worksheet (speed reflects posted or statutory speed limit or 85th percentile speed on the major street):
a) Worksheet 1 - 35 mph or less
b) Worksheet 2- exceeds 35 mph, communities with less than 10,000, or where major transit stop exists

Step 2: Does the crossing meet minimum pedestrian volumes to be considered for a TCD type of treatment?

2a	Peak-hour pedestrian volume (ped/h), vp ○If 2a ≥ 20 ped/h, then go to Step 3. ○If 2a < 20 ped/h, then consider median refuge islands, curb extensions, traffic calming, etc. as feasible.	2a	20

Step 3: Does the crossing meet the pedestrian volume warrant for a traffic signal?

3a	Major road volume, total of both approaches during peak hour (veh/h), V maj-s	3a	1763
3b	○Minimum signal warrant volume for peak hour (use 3a for Vmaj-s), SC •SC = 0.00021 Vmaj-s² - 0.74072 Vmaj-s + 734.125)/0.75 **OR** •[(0.00021 3a² - 0.74072 3a + 734.125)/0.75]	3b	107.93
3c	○If 3b< 133, then enter 133. If 3b ≥ 133, then enter 3b.	3c	133
3d	○If 15th percentile crossing speed of pedestrians is less than 3.5 ft/s (1.1 m/s), then reduce 3c by up to 50 percent; otherwise enter 3c. ○If 2a ≥ 3d, then the warrant has been met and a traffic signal should be considered if not within 300 ft of another traffic signal. Otherwise, the warrant has not been met. Go to Step 4.	3d	133

Step 4: Estimate pedestrian delay.

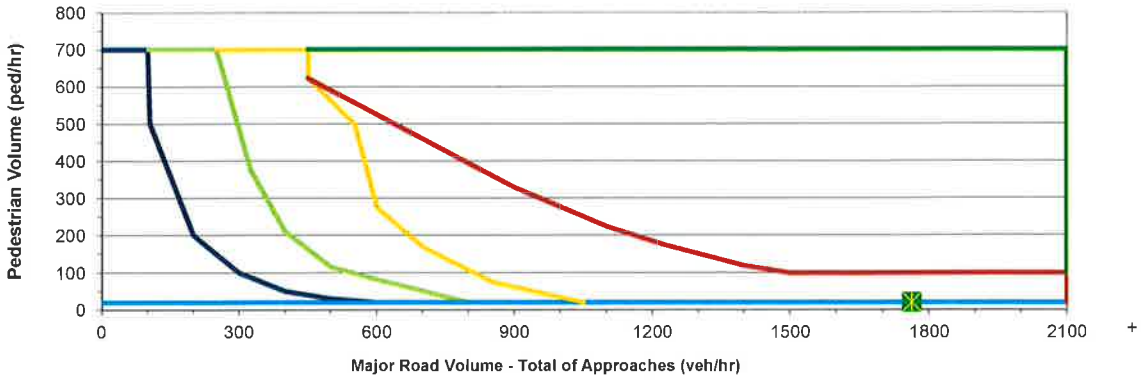
4a	Pedestrian crossing distance, curb to curb (ft), L	4a	76
4b	Pedestrian walking speed (ft/s), Sp	4b	3.5
4c	Pedestrian start-up time and end clearance time (s), ts	4c	4
4d	○Critical gap required for crossing pedestrian (s), tc= (L/Sp) + ts OR [(4a/4b) + 4c)]	4d	25.71
4e	Major road volume, total of both approaches or approach being crossed if median refuge island is present during peak hour (veh/h), Vmaj-d	4e	1763
4f	○Major road flow rate (veh/s), v = Vmaj-d/3600 OR [4e/3600]	4f	0.49
4g	○Average pedestrian delay (s/person), dp = $(e^{v\,tc}$ - v tc - 1) / v OR [$(e^{4f \times 4d}$-4f x 4d - 1) / 4f]	4g	601227.04
4h	○Total pedestrian delay (h), Dp=(dp x Vp) / 3600 OR [(4g x 2a) / 3600] (this is estimated delayfor all pedestrians crossing the major roadway without a crossing treatment - assumes 05 compliance). This calculated value can be replaced with the actual total pedestrian delay measured at the site.	4h	3340.15

Step 5: Select treatment based upon total pedestrian delay and expected motorist compliance.

5a	Expected motorist compliance at pedestrian crossings in region, Comp = high or low	5a	LOW

Total Pedestrian Delay Dp (4h) and Comp (5a)	Treatment Category (see Descriptions of Sample Treatments for examples)
Dp ≥21.3h (Comp = high or low) OR 5.3h≤Dp<21.3 h and Comp = low	USE RED
1.3h ≤ Dp < 21.3h and Comp = high or low) OR 5.3 ≤ Dp < 21.3 h and Comp = high	DO NOT USE ACTIVE OR ENHANCED
Dp < 1.3 h (Comp = high or low)	DO NOT USE CROSSWALK

Roadway Configuration: 72' Wide, <35 mph, Vped=3.5 ft/s



LEGEND
Study Intersection
Signal
Red
Enhanced-High Visibility/Active when Present (if high compliance expected) OR Red (if low compliance expected)
Enhanced-High Visibility/Active when Present
Striped Crosswalk
No Treatment

DESCRIPTIONS OF TREATMENT TYPE

RED	ENHANCED-HIGH VISIBILITY/ACTIVE WHEN PRESENT	
	Active When Present	**Enhanced/High Visibility**
• Midblock Signal • Half Signal • HAWK	• In Roadway Warning Lights • Passive/Pushbutton Flashing Beacons • Pedestrian Crossing Flags • Rapid Rectangular Flashing Beacons	• In-Street Crossing Signs • High Visibility Signs/Markings • Pedestrian Refuge Islands • Raised Crosswalks • Curb Extensions • Advanced Signage • Advanced Stop/Yield Lines • Constant Flashing Yellow Beacons

TCRP Report 112 - NCHRP Report 562 - Pedestrian Crossing Treatment Worksheet
Worksheet 1: Peak-Hour, 35 MPH or Less

Analyst and Site Information

Analyst: Allison Woodworth	Major Street: Fitzgerald Dr
Analysis Date: 4-Nov-20	Minor Street or Location: Pinole, CA
Data Collection Date: 22-Oct-20	Peak Hour: 5:00 - 6:00 p.m.

Step 1: Select worksheet (speed reflects posted or statutory speed limit or 85th percentile speed on the major street):
a) Worksheet 1 - 35 mph or less
b) Worksheet 2- exceeds 35 mph, communities with less than 10,000, or where major transit stop exists

Step 2: Does the crossing meet minimum pedestrian volumes to be considered for a TCD type of treatment?

2a	Peak-hour pedestrian volume (ped/h), vp ○If 2a ≥ 20 ped/h, then go to Step 3. ○If 2a < 20 ped/h, then consider median refuge islands, curb extensions, traffic calming, etc. as feasible.	2a	20

Step 3: Does the crossing meet the pedestrian volume warrant for a traffic signal?

3a	Major road volume, total of both approaches during peak hour (veh/h), V maj-s	3a	1763
3b	○Minimum signal warrant volume for peak hour (use 3a for Vmaj-s), SC •SC = 0.00021 Vmaj-s² - 0.74072 Vmaj-s + 734.125)/0.75 **OR** •[(0.00021 3a² - 0.74072 3a + 734.125)/0.75]	3b	107.93
3c	○If 3b< 133, then enter 133. If 3b ≥ 133, then enter 3b.	3c	133
3d	○If 15th percentile crossing speed of pedestrians is less than 3.5 ft/s (1.1 m/s), then reduce 3c by up to 50 percent; otherwise enter 3c.	3d	133

○If 2a ≥ 3d, then the warrant has been met and a traffic signal should be considered if not within 300 ft of another traffic signal. Otherwise, the warrant has not been met. Go to Step 4.

Step 4: Estimate pedestrian delay.

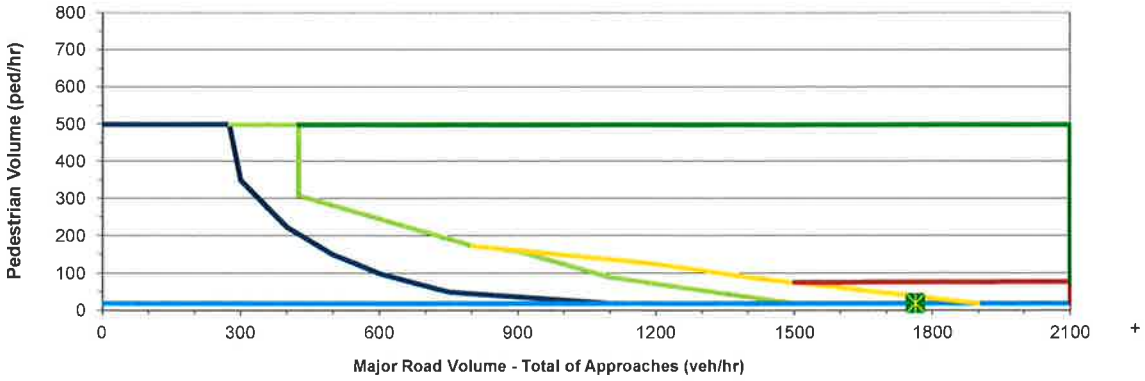
4a	Pedestrian crossing distance, curb to curb (ft), L	4a	32
4b	Pedestrian walking speed (ft/s), Sp	4b	3.5
4c	Pedestrian start-up time and end clearance time (s), ts	4c	4
4d	○Critical gap required for crossing pedestrian (s), tc= (L/Sp) + ts OR [(4a/4b) + 4c)]	4d	13.14
4e	Major road volume, total of both approaches or approach being crossed if median refuge island is present during peak hour (veh/h), Vmaj-d	4e	1046
4f	○Major road flow rate (veh/s), v = Vmaj-d/3600 OR [4e/3600]	4f	0.29
4g	○Average pedestrian delay (s/person), dp = ($e^{v\,tc}$ - v tc - 1) / v OR [($e^{4f \times 4d}$-4f x 4d - 1) / 4f]	4g	140.17
4h	○Total pedestrian delay (h), Dp=(dp x Vp) / 3600 OR [(4g x 2a) / 3600] (this is estimated delayfor all pedestrians crossing the major roadway without a crossing treatment - assumes 05 compliance). This calculated value can be replaced with the actual total pedestrian delay measured at the site.	4h	0.78

Step 5: Select treatment based upon total pedestrian delay and expected motorist compliance.

5a	Expected motorist compliance at pedestrian crossings in region, Comp = high or low	5a	LOW

Total Pedestrian Delay Dp (4h) and Comp (5a)	Treatment Category (see Descriptions of Sample Treatments for examples)
Dp ≥21.3h (Comp = high or low) OR 5.3h≤Dp<21.3 h and Comp = low	DO NOT USE RED
1.3h ≤ Dp < 21.3h and Comp = high or low) OR 5.3 ≤ Dp < 21.3 h and Comp = high	DO NOT USE ACTIVE OR ENHANCED
Dp < 1.3 h (Comp = high or low)	USE CROSSWALK

Roadway Configuration: 34' Wide, <35 mph, Vped = 3.0 ft/s



LEGEND
Study Intersection
Signal
Red
Enhanced-High Visibility/Active when Present (if high compliance expected) OR Red (if low compliance expected)
Enhanced-High Visibility/Active when Present
Striped Crosswalk
No Treatment

DESCRIPTIONS OF TREATMENT TYPE		
RED	ENHANCED-HIGH VISIBILITY/ACTIVE WHEN PRESENT	
	Active When Present	Enhanced/High Visibility
• Midblock Signal • Half Signal • HAWK	• In Roadway Warning Lights • Passive/Pushbutton Flashing Beacons • Pedestrian Crossing Flags • Rapid Rectangular Flashing Beacons	• In-Street Crossing Signs • High Visibility Signs/Markings • Pedestrian Refuge Islands • Raised Crosswalks • Curb Extensions • Advanced Signage • Advanced Stop/Yield Lines • Constant Flashing Yellow Beacons

Warrant 3: Peak-Hour Volumes and Delay

Fiztgerald Blvd & Main Driveway
City of Pinole

Project Name: Pinole Mixed use

Intersection: 2

	Major Street	Minor Street
Street Name	Fiztgerald Blvd	Main Driveway
Direction	E-W	N-S
Number of Lanes	2	1
Approach Speed	30	25

Population less than 10,000? No
Date of Count: Thursday, October 22, 2020
Scenario: AM Existing

Warrant 3 Met?: Met when either Condition A or B is met — **No**

Condition A: Met when conditions A1, A2, and A3 are met — Not Met

Condition A1 — Not Met

The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one lane approach, or five vehicle-hours for a two-lane approach

Minor Approach Delay: 0.06 vehicle-hours

Condition A2 — Not Met

The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic of 150 vph for two moving lanes

Minor Approach Volume: 17 vph

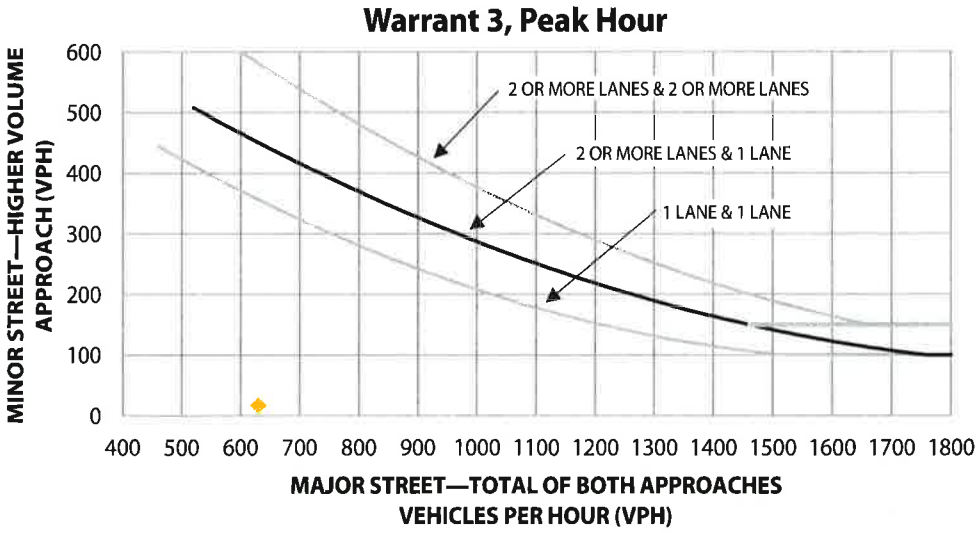
Condition A3 — Not Met

The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more appraches or 650 vph for intersections with three approaches

Total Entering Volume: 656 vph

Condition B — Not Met

The plotted point falls above the curve



Warrant 3: Peak-Hour Volumes and Delay

Fiztgerald Blvd & Main Driveway
City of Pinole

Project Name: Pinole Mixed use

Intersection: 2

	Major Street	Minor Street
Street Name	Fiztgerald Blvd	Main Driveway
Direction	E-W	N-S
Number of Lanes	2	1
Approach Speed	30	25

Population less than 10,000?	No
Date of Count:	Thursday, October 22, 2020
Scenario:	PM Existing

Warrant 3 Met?: Met when either Condition A or B is met — **No**

Condition A: Met when conditions A1, A2, and A3 are met — Not Met

Condition A1 — Not Met

The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one lane approach, or five vehicle-hours for a two-lane approach

Minor Approach Delay: 1.14 vehicle-hours

Condition A2 — Not Met

The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic of 150 vph for two moving lanes

Minor Approach Volume: 45 vph

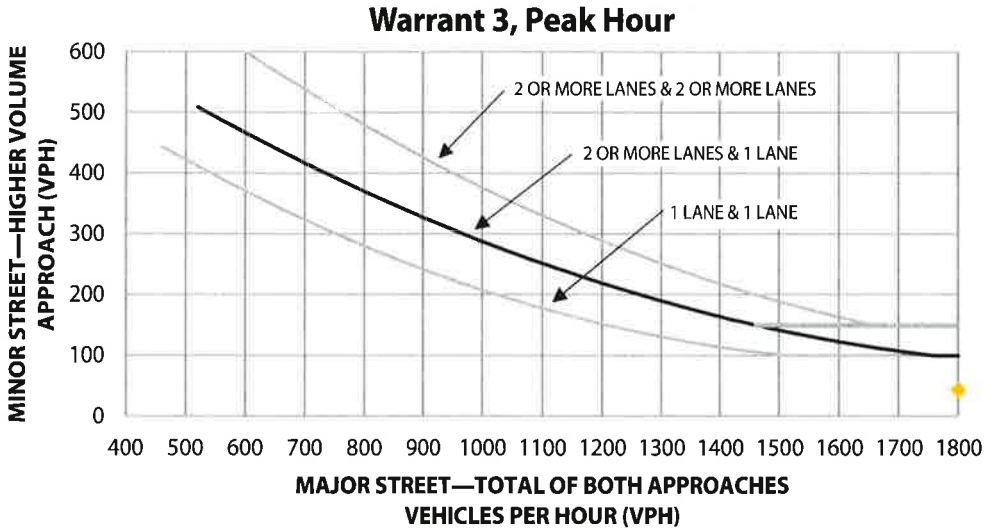
Condition A3 — Met

The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more appraches or 650 vph for intersections with three approaches

Total Entering Volume: 2368 vph

Condition B — Not Met

The plotted point falls above the curve



Warrant 3: Peak-Hour Volumes and Delay

Fiztgerald Blvd & Main Driveway
City of Pinole

Project Name: Pinole Mixed use

Intersection: 2

	Major Street	Minor Street
Street Name	Fiztgerald Blvd	Main Driveway
Direction	E-W	N-S
Number of Lanes	2	1
Approach Speed	30	25

Population less than 10,000? No
Date of Count: Thursday, October 22, 2020
Scenario: AM Existing Plus Project

Warrant 3 Met?: Met when either Condition A or B is met — **No**

Condition A: Met when conditions A1, A2, and A3 are met — Not Met

Condition A1 — Not Met

The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one lane approach, or five vehicle-hours for a two-lane approach

Minor Approach Delay: 0.17 vehicle-hours

Condition A2 — Not Met

The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic of 150 vph for two moving lanes

Minor Approach Volume: 52 vph

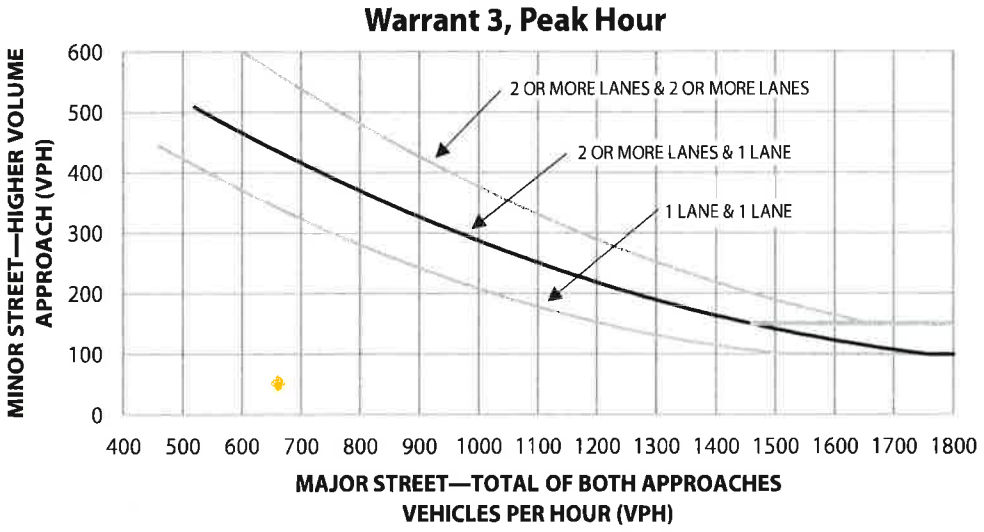
Condition A3 — Not Met

The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more appraches or 650 vph for intersections with three approaches

Total Entering Volume: 722 vph

Condition B — Not Met

The plotted point falls above the curve



Warrant 3: Peak-Hour Volumes and Delay

Fiztgerald Blvd & Main Driveway
City of Pinole

Project Name: Pinole Mixed use

Intersection: 2

	Major Street	Minor Street
Street Name	Fiztgerald Blvd	Main Driveway
Direction	E-W	N-S
Number of Lanes	2	1
Approach Speed	30	25

Population less than 10,000? No
Date of Count: Thursday, October 22, 2020
Scenario: PM Existing Plus Project

Warrant 3 Met?: Met when either Condition A or B is met — **No**

Condition A: Met when conditions A1, A2, and A3 are met — Not Met

Condition A1 — Not Met

The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one lane approach, or five vehicle-hours for a two-lane approach

Minor Approach Delay: 3.1 vehicle-hours

Condition A2 — Not Met

The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic of 150 vph for two moving lanes

Minor Approach Volume: 68 vph

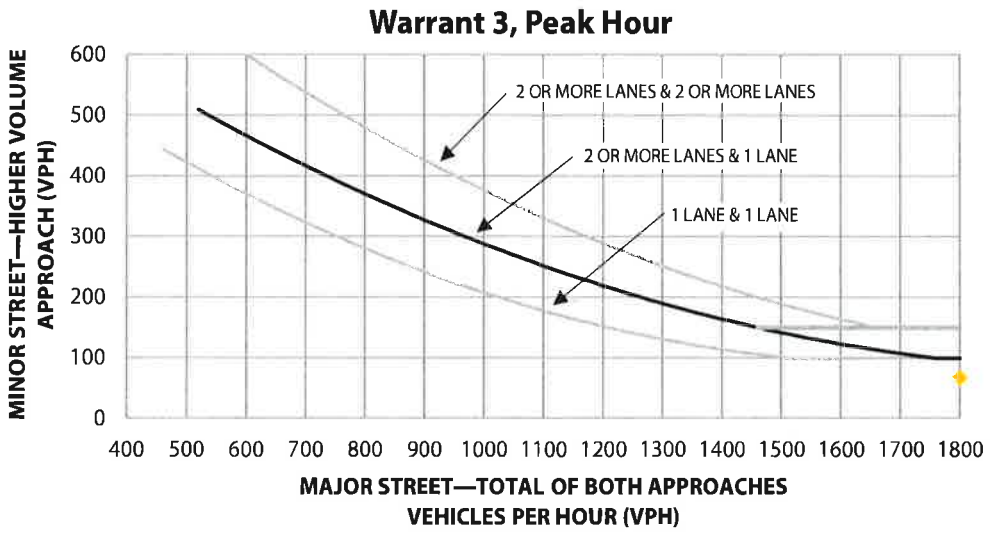
Condition A3 — Met

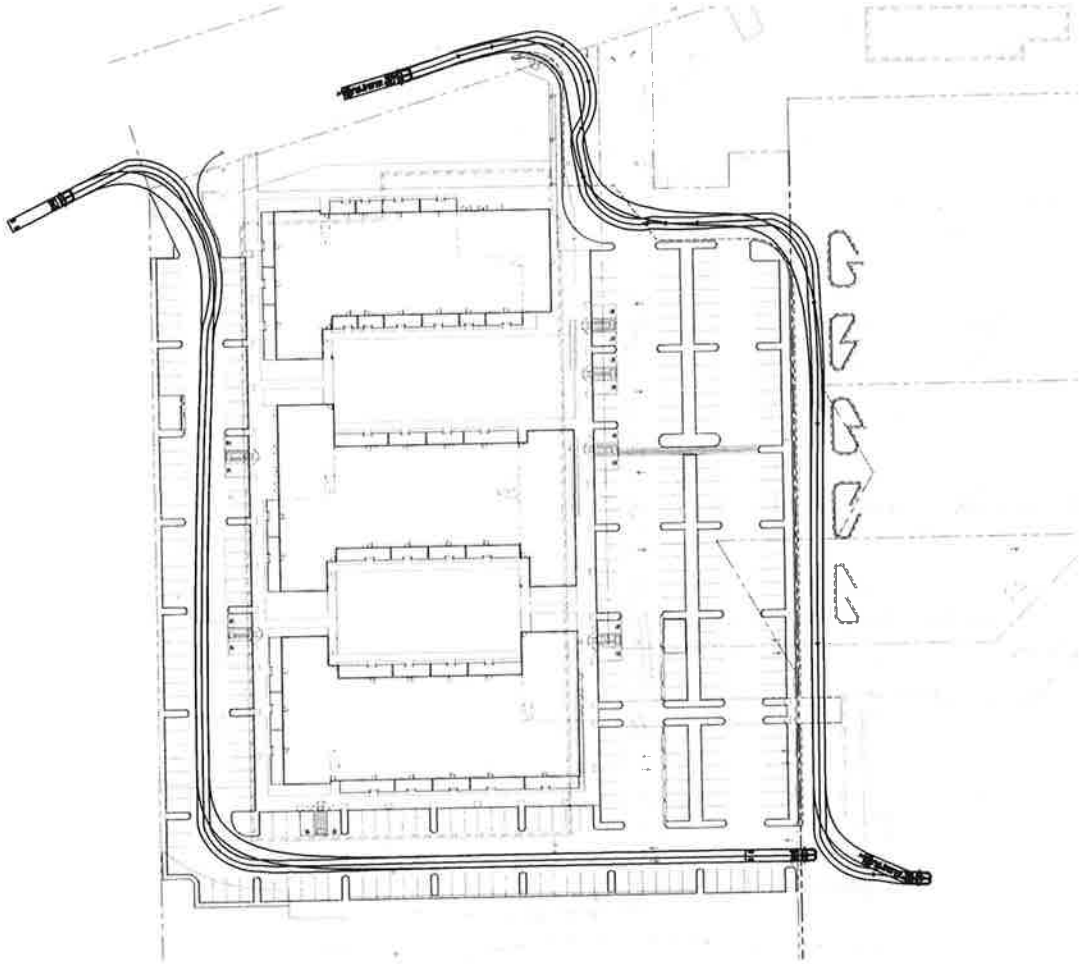
The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more appraches or 650 vph for intersections with three approaches

Total Entering Volume: 2443 vph

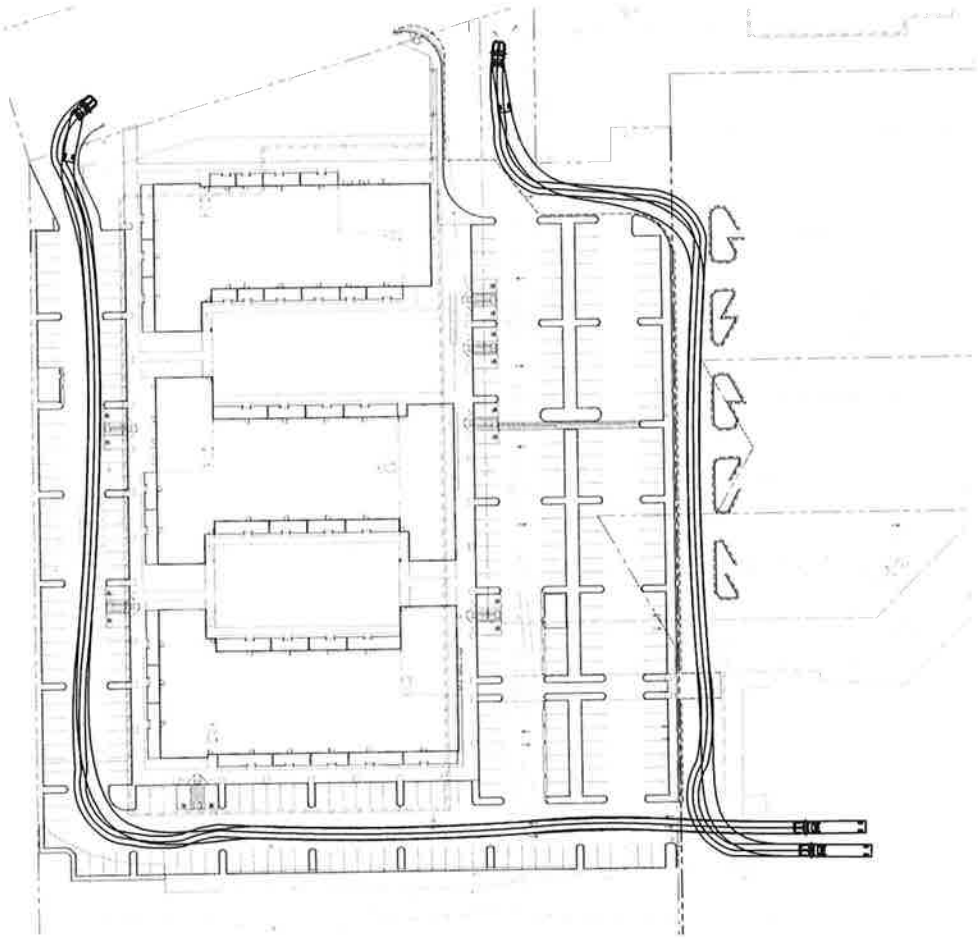
Condition B — Not Met

The plotted point falls above the curve

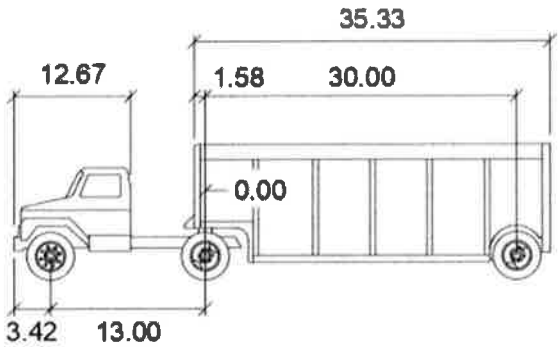




AutoTURN – Commercial 48FT – Entering the Site



AutoTURN – Commercial 48FT – Exiting the Site



Articulated Beverage Truck

	feet	
Tractor Width	: 8.50	**Lock to Lock Time**
Trailer Width	: 8.50	**Steering Angle**
Tractor Track	: 8.50	**Articulating Angle**
Trailer Track	: 8.50	

August 27, 2021

Mr. Richard Schoebel
Chief Operating Officer
Retail Opportunity Investments Corporation
11250 El Camino Real, Suite 200
San Diego, CA 92130

Vehicle Miles Traveled Evaluation for the Pinole Vista Project

Dear Mr. Schoebel;

As requested, W-Trans has prepared an evaluation of vehicle miles traveled (VMT) for the proposed Pinole Vista project. The purpose of this analysis is to document the potential change in VMT of the proposed residential development.

Project Description

The proposed project would convert an unoccupied 91,340 square foot retail shopping center into a 214-unit multi-family housing complex. The main access points to the project would be the two most westerly driveways of the Pinole Vista Shopping center.

Vehicle Miles Traveled (VMT) Evaluation

Senate Bill (SB) 743 established a change in the metric to be applied for determining environmental traffic impacts associated with development projects. Rather than the delay-based criteria associated with a Level of Service (LOS) analysis, the increase in Vehicle Miles Traveled (VMT) as a result of a project is now the basis for determining potential environmental impacts. Because the City of Pinole has not yet adopted a standard of significance for evaluating VMT, guidance provided by the California Governor's Office of Planning and Research (OPR) in the publication Technical Advisory on Evaluating Transportation Impacts in CEQA, 2018, as well as recommendations provided by the Costa County Transportation Authority (CCTA) in the Technical Memorandum titled "VMT Analysis Methodology for Land Use Projects in Contra Costa, GMTF Review Draft", dated July 9, 2020 was used. Guidance provided in these documents recommend the use of screening thresholds to quickly identify when a project should be expected to cause a less-than-significant impact without conducting a detailed study. (See CEQA Guidelines, 15036(c)(3)(C), 15128, and Appendix G.)

Based on data from Contra Costa Transportation Authority (CCTA) 2020 travel demand model, the County of Contra Costa has a baseline average residential VMT of 17.3 miles per capita. Applying the previously described guidance, a residential project generating a VMT that is 15 percent or more below this value, or 14.7 miles per capita, would have a less-than-significant VMT impact.

The proposed project would be located within Traffic Analysis Zone (TAZ) 10190 of the Contra Costa Travel Demand Model which has a home-based VMT of 13.2 miles per resident. Because this per capita VMT rate of 13.2 is lower than the significance threshold of 14.7 miles, the project would be presumed to have a less-than-significant VMT impact. A summary of the VMT findings is provided in Table 1.

Table 1 – Vehicle Miles Traveled Analysis Summary

VMT Metric	Baseline VMT Rate	Significance Threshold	Project VMT Rate	Resulting Significance
Residential VMT per Capita (Countywide Baseline)	17.3	14.7	13.2	Less-Than-Significant

Note: VMT Rate is measured in VMT per Capita, or the number of daily miles driven per resident

Finding –The project would be expected to have a VMT per capita equal to or less than 15-percent below the countywide VMT per resident. Therefore, the project is presumed to have a less-than-significant VMT impact.

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Mark Spencer, TE
Senior Principal

MES/kbj/PIN003.L3

February 2, 2022

Mr. Rich Schoebel
ROIC California, LLC
11250 El Camino Real, Suite 200
San Diego, CA 92130

DRAFT Pinole Vista Transportation Demand Management Plan

Dear Mr. Schoebel;

As requested, W-Trans has prepared a Transportation Demand Management (TDM) Plan for the proposed Pinole Vista development to be located at 1500 Fitzgerald Drive in the City of Pinole. The purpose of this letter is to present potential TDM measures and quantify the resulting estimated vehicle trip reductions.

Project Description

The proposed project would replace an existing 91,342 square foot vacant commercial building with a five-story residential building consisting of 223 units. Seven percent of the units (16) would be designated very-low-income and eight percent (18) would be low-income. The project would provide 275 surface vehicle parking spaces and 160 bicycle spaces in secure ground-level rooms within the building. The project would be located immediately adjacent to the Pinole Vista Shopping Center, which includes multiple amenities such as a supermarket, gym, and restaurants. This mix of uses allows for accessibility by foot and has a profound effect in terms of vehicle trip reduction (estimated at five percent), but is listed separately from the TDM Plan as it is an existing condition.

Transportation Demand Management (TDM) Plan

The following section describes the potential TDM measures suggested for the project based on best practices to reduce vehicle trip generation for residents and visitors.

Transit Pass Subsidy

Transit subsidies can act as strong incentives for residents to use transit for employment, shopping, or leisure trips. There is a bus stop roughly 200 feet from the project site that is served by two AC Transit and three WestCAT routes. To encourage transit use, the residential management association can provide residents with either a $40 monthly WestCAT fixed route pass or enroll the community in AC Transit's EasyPass program that provides discounted bus passes (prices calculated based on AC Transit formula). Implementation of a transit subsidy program would result in an estimated trip reduction of 2.4 percent.

Rideshare Program

Carpooling to transit stations, work locations and schools is one of the most common and cost-effective alternative modes of transportation and one which both employees and residents can adopt. There are numerous benefits to ridesharing. Carpooling can reduce peak-period vehicle trips and increase commuters' travel choices. Further, it reduces congestion, road and parking facility costs and pollution emissions. Carpooling tends to have the lowest cost per passenger-mile of any motorized mode of transportation as it makes use of a vehicle seat that would otherwise be empty. Carpooling also provides financial savings to consumers by decreasing fuel and parking costs.

The greatest barrier to carpooling is often simply being able to identify other travelers with the same travel route. The most effective approach is to create personalized trip planning information, regardless of mode, for residents. However, personalized trip planning is often expensive. An alternative is services that can assist in ride-matching that are less customized. The most basic publicly available service is 511.org's free carpool ride-matching service.

There are also various private ride-matching providers (e.g. Carma, Zimride, RideAmigos, Via, Scoop) that can effectively create carpool networks while making them safe and convenient for their users.

Implementation of a rideshare program would result in an estimated trip reduction of 0.9 percent.

Education, Outreach & Marketing

The residential management association could designate a staff person to act as the Transportation Coordinator for this community. This person would implement and manage the TDM plan and programs. The Coordinator would provide customized transit information to the community's residents (i.e. nearest bus stops, bus and BART timetables, etc.). New residents would be provided with a welcome packet containing relevant transportation information. The packet could include walking and biking maps of the area, suggested walking routes to nearby transit facilities, information on local and regional transit providers, and information on the residential organization's ride-matching services. It is beneficial to provide a central information center customized for this community even though a resident may also locate this information on their own through various online sources. The coordinator's duties can include:

- Create and distribute resident transportation information welcome packets.
- Maintain and update a virtual bulletin board of transportation information.
- Distribute Contra Costa biking and walking maps and other information.
- Promote and maintain the rideshare program.
- Provide information on transit passes.

Implementation of an education, outreach, and marketing program would result in an estimated trip reduction of 2.3 percent.

Bikeshare Program

Bikeshare programs provide users with shared bicycles that can be used for short periods of time. Providing shared bicycles in a secure area within the development gives residents the opportunity to reach destinations without a car that are outside a typical walking distance while forgoing the expense of owning, maintaining, and storing a bicycle. Implementation of an onsite bikeshare program would result in an estimated trip reduction of 0.1 percent.

Vehicle Trip Reduction Analysis

The vehicle trip generation of the project is influenced by the TDM program outlined above. The publication *Quantifying Greenhouse Gas Mitigation Measures*, California Air Pollution Control Officers Association (CAPCOA), 2010, includes a methodology to determine the vehicle trip reductions associated with TDM measures. CAPCOA contains multiple citations referencing original research. For the proposed project, there is a potential 5.6-percent trip reduction based on the measures above (not including the impacts from the site's mix of uses). Table 1 details the reduction by measure.

DRAFT

Table 1 – Estimated Vehicle Trip Reduction

TDM Measure	Trip Reduction (%) Project Estimate
Transit Pass Subsidy	2.4%
Ridesharing Program	0.9%
Education, Outreach, and Marketing	2.3%
Bikeshare Program	0.1%
Total Potential Trip Reduction	**5.7%**
Dampened[1]	5.6%

Note: [1] Total reduction is dampened to 5.6% to reflect diminishing effectiveness of combined measures

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Brian Canepa, TDM-CP
Principal

Mark Spencer, PE
Senior Principal

MES/bac/PIN003.L4

DRAFT

Attachment C

VICINITY MAP

DRAWING LIST

SHEET NO. & TITLE	
ARCHITECTURAL	
A0.0	GENERAL INFORMATION
A0.1	OPEN SPACE DIAGRAMS
A2.0	SITE PLAN
A2.1	PLANS
A2.2	PLANS
A2.3	PLANS
A2.4	UNIT PLANS
A2.5	TRASH / RECYCLING ENCLOSURE PLANS
A3.1	BUILDING ELEVATIONS
A3.2	BUILDING ELEVATIONS
A3.3	MATERIALS AND COLORS
A3.4	PERSPECTIVE VIEWS
A3.5	PERSPECTIVE VIEWS
A3.6	PERSPECTIVE VIEWS
A3.7	PERSPECTIVE VIEWS
A3.8	PERSPECTIVE VIEWS
A3.9	PERSPECTIVE VIEWS
A4.1	BUILDING SECTIONS
CIVIL	
C1.0	EXISTING CONDITIONS
C1.1	DEMOLITION PLANS
C2.0	GRADING AND DRAINAGE PLAN
C2.1	GRADING AND DRAINAGE PLAN
C3.1	UTILITY PLAN
C3.0	UTILITY PLAN
LANDSCAPE	
L1.1	CONCEPTUAL LANDSCAPE PLAN
L1.2	COMMON AREA DETAIL PLANS
L1.3	TREE IMAGES
L2.1	CONCEPT IRRIGATION PLAN
LIGHTING	
•	LIGHTING PLAN

PROJECT DIRECTORY

OWNER:
ROIC CALIFORNIA
11250 El Camino Real, # 200
San Diego, CA 92130
Contact: Chris Cole
ccole@metrovation.com

ARCHITECT:
Isaiah Stackhouse, Principal
TRACHTENBERG ARCHITECTS
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707-541-2300
www.adobeinc.com

LANDSCAPE ARCHITECT:
Don MacNair
MACNAIR LANDSCAPE ARCHITECTURE
PO Box 251
Kenwood, CA 95452
707-833-2288
www.macnairlandscapes.com

PROJECT INFORMATION

PROJECT DESCRIPTION

PROPOSED DEMOLITION OF AN EXISTING VACANT RETAIL STRUCTURE AND CONSTRUCTION OF A NEW HOUSING DEVELOPMENT WITH 223-DWELLING UNITS, UTILIZING THE STATE DENSITY BONUS AND SB-330.

DENSITY BONUS CALCULATIONS

BASE DENSITY	178 (5.93 ACRES x 30 UNITS PER ACRE)
PERCENTAGE OF VLI UNITS PROVIDED	7.3%
NUMBER OF VLI UNITS PROVIDED	13
PERCENTAGE DENSITY BONUS AWARDED	25%
NUMBER OF BONUS UNITS (ROUNDS UP)	45
PROPOSED UNITS WITH DENSITY BONUS	223
NUMBER OF CONCESSIONS AWARDED	1
REQUESTED COST-REDUCTION CONCESSION	CONCESSION TO ELIMINATE THE COMMERCIAL REQUIREMENT
REQUESTED WAIVERS	NO WAIVERS ARE REQUESTED

PINOLE - AFFORDABLE UNIT CALCULATIONS

	NUMBER	% OF BASE	
BASE UNITS	178	100%	
TOTAL AFFORDABLE %	**26.7**	**15%**	
VLI UNITS (MIN. 40% OF TOTAL)	13.0	7%	49%
LI UNITS	13.7	8%	51%

ZONING SUMMARY

	BASE ZONING ALLOWBLE / REQUIRED	ALLOWABLE / REQUIRED W/ 25% DENSITY BONUS	PROPOSED PROJECT W/ WAIVERS AND (1) CONCESSION
ZONING	CMU – COMMERCIAL MIXED USE		
SPECIFIC PLAN DESIGNATION	APPIAN WAY – SERVICE SUB-AREA		
PARCEL AREA (ACRES)	5.93	5.93	5.93
DENSITY (UNITS/ACRE)	30	30 + 25%	37.61
NUMBER OF UNITS	178	223	**223**
HEIGHT	6-STORIES / 75'	8-STORIES / 95'	5-STORIES / 55'
SETBACK FRONT (NORTH)	0'	0'	67'-0" AVG.
SETBACK SIDE (WEST)	0'	0'	77'-6"
SETBACK SIDE (EAST)	0'	0'	142'-3"
SETBACK REAR (SOUTH)	15'	15'	167'-4" AVG
OPEN SPACE	80 SF/UNIT	80 SF/UNIT	369 SF/UNIT (SEE A0.1)
PARKING	SEE PARKING TABLE		
BICYCLE PARKING (1 PER 4 UNITS)	53.5	53.5	160
FAR	NA (SPECIFIC PLAN ELIMINATES AS A CONSTRAINT)		
MAXIMUM GROSS FLOOR AREA	NA	NA	NA
TOTAL GROSS FLOOR AREA	NA	538,494	263,862
RESIDENTIAL FLOOR AREA (49%)	49%	263,862	263,862
COMMERCIAL FLOOR AREA (51%)	51%	274,632	**0% W/ CONCESSION***

***Per the Government Code below, as a density bonus housing development which provides 5 percent of the (base) total units for very low income households, the project shall receive one concession or incentive which results in identifiable and actual cost reductions. This project requests one cost-reduction concession to eliminate the identifiable, actual (and self-evident) costs of constructing the several hundred thousand square feet of commercial floor area that would otherwise be required to meet the 51% commercial floor area requirement.**

GOVERNMENT CODE 65915
(d) (1) An applicant for a density bonus pursuant to subdivision (b) may submit to a city, county, or city and county a proposal for the specific incentives or concessions that the applicant requests pursuant to this section, and may request a meeting with the city, county, or city and county. The city, county, or city and county shall grant the concession or incentive requested by the applicant unless the city, county, or city and county makes a written finding, based upon substantial evidence, of any of the following:
(A) The concession or incentive does not result in identifiable and actual cost reductions, consistent with subdivision (k), to provide for affordable housing costs, as defined in Section 50052.5 of the Health and Safety Code, or for rents for the targeted units to be set as specified in subdivision (c).
(B) The concession or incentive would have a specific, adverse impact, as defined in paragraph (2) of subdivision (d) of Section 65589.5, upon public health and safety or the physical environment or on any real property that is listed in the California Register of Historical Resources and for which there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact without rendering the development unaffordable to low-income and moderate-income households.
(C) The concession or incentive would be contrary to state or federal law.
(2) The applicant shall receive the following number of incentives or concessions:
(A) One incentive or concession for projects that include ... at least 5 percent for very low income households, or at least 10 percent for persons and families of moderate income in a common interest development.

AREA AND UNIT TABLE

	GSF	STUDIO	1-BR	2-BR	2-BR+ OFFICE	TOTAL
LEVEL 5	51,426	7	20	14	4	45
LEVEL 4	53,470	8	21	14	4	47
LEVEL 3	53,470	8	21	14	4	47
LEVEL 2	53,470	8	21	14	4	47
LEVEL 1	52,026	5	16	12	4	37
TOTAL	**263,862**	**36**	**99**	**68**	**20**	**223**
		16%	44%	30%	9%	100%
		16%	44%	39%		

PARKING REQUIREMENTS AS A STATE DENSITY BONUS PROJECT

		STUDIO	1-BR	2-BR	2-BR+ OFFICE	TOTAL
DWELLING UNITS		36	99	68	20	223
REQUIRED SPACES PER UNIT - Per 65915(p)(1)		**1**	**1**	**1.5**	**1.5**	
TOTAL REQUIRED PARKING		36	99	102	30	267
TOTAL PARKING PROVIDED						**275**
					EXCESS PARKING SPACES:	8
					ADA SPACES REQ'D (5%)	14

AMENITIES

TOTAL AMENITIES	**5,650**
LOUNGE A "CAFÉ"	775
CLUB ROOM A	1,130
CLUB ROOM B	1,130
FITNESS	2,075
L5 COMMUNITY ROOOM	540

OPEN SPACE

SEE SHEET A0.1

TRACHTENBERG ARCHITECTS

2421 Fourth Street
Berkeley, California 94710
510.649.1414
www.TrachtenbergArch.com

LICENSED ARCHITECT
DAVID TRACHTENBERG
C20926
4/30/20_21
RENEWAL DATE
STATE OF CALIFORNIA

PINOLE VISTA

1500 FITZGERALD DR,
PINOLE, CA 94564

04.07.2021 PLANNING SUBMITTAL
07.01.2021 PLANNING SUBMITTAL
06.27.2022 PLANNING SUBMITTAL

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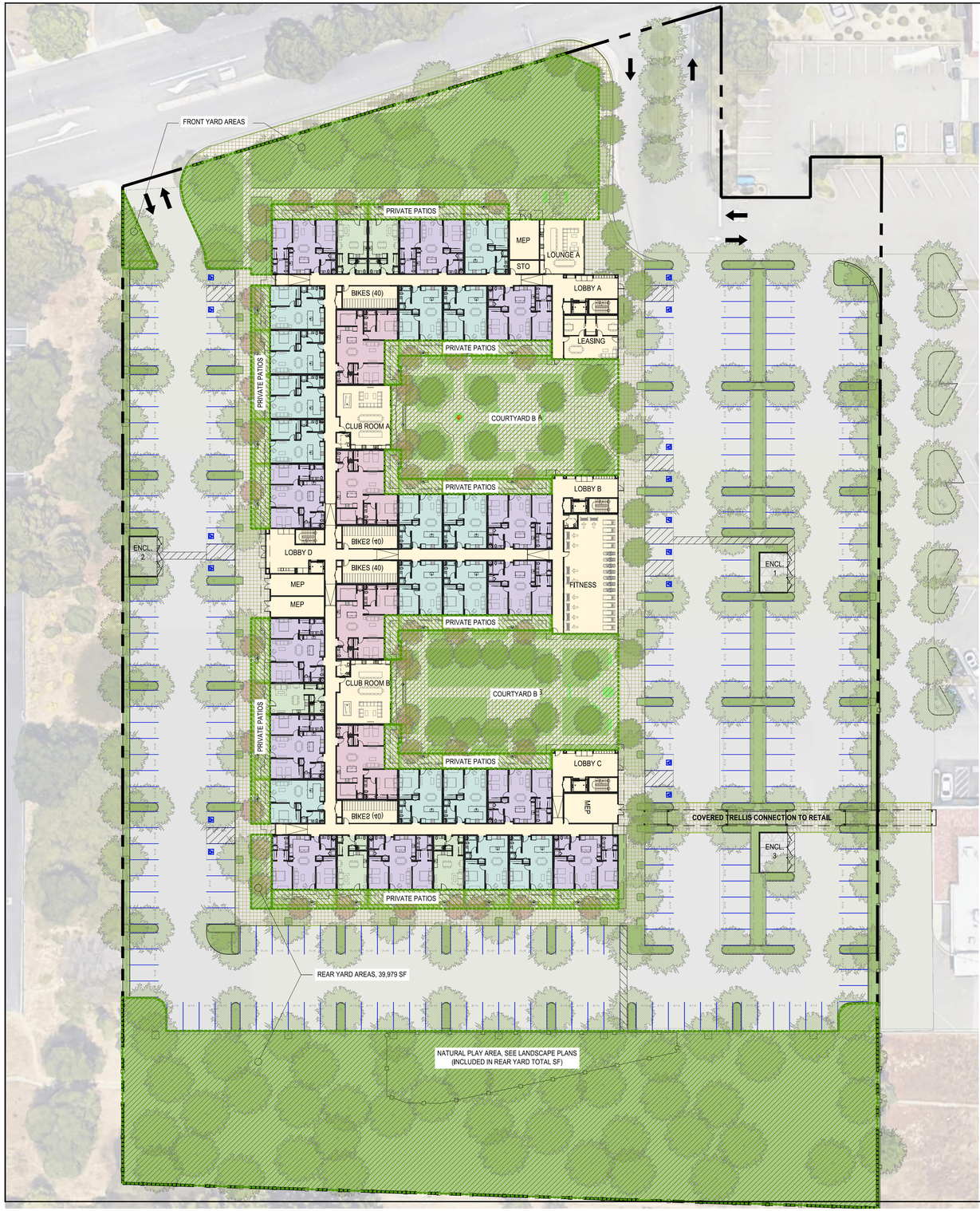
GENERAL PROJECT INFORMATION

A0.0



17.98.020 GENERAL DEFINITIONS.

USABLE OPEN SPACE. Outdoor space, including natural and landscaped ground areas, pools, patios, decks, and balconies, designed for active or passive recreational use and which is accessible to the occupants of a building on the same lot.

USABLE OPEN SPACE

	UNITS	SF/UNIT	TOTAL	SITE AREA	% OF SITE
REQUIRED OPEN SPACE	223	80	17,840		
PROVIDED OPEN SPACE	**223**	**369**	**82,180**	258,311	32%
FRONT YARD OPEN SPACE AREAS			15,107		
ROOF DECK			575		
COURTYARD A			8,484		
COURTYARD B			8,484		
REAR YARD OPEN SPACE AREAS			39,979		
PRIVATE PATIOS AT GROUND LEVEL UNITS	37	258	9,551		

KEY

COMMON OPEN SPACE

PRIVATE OPEN SPACE

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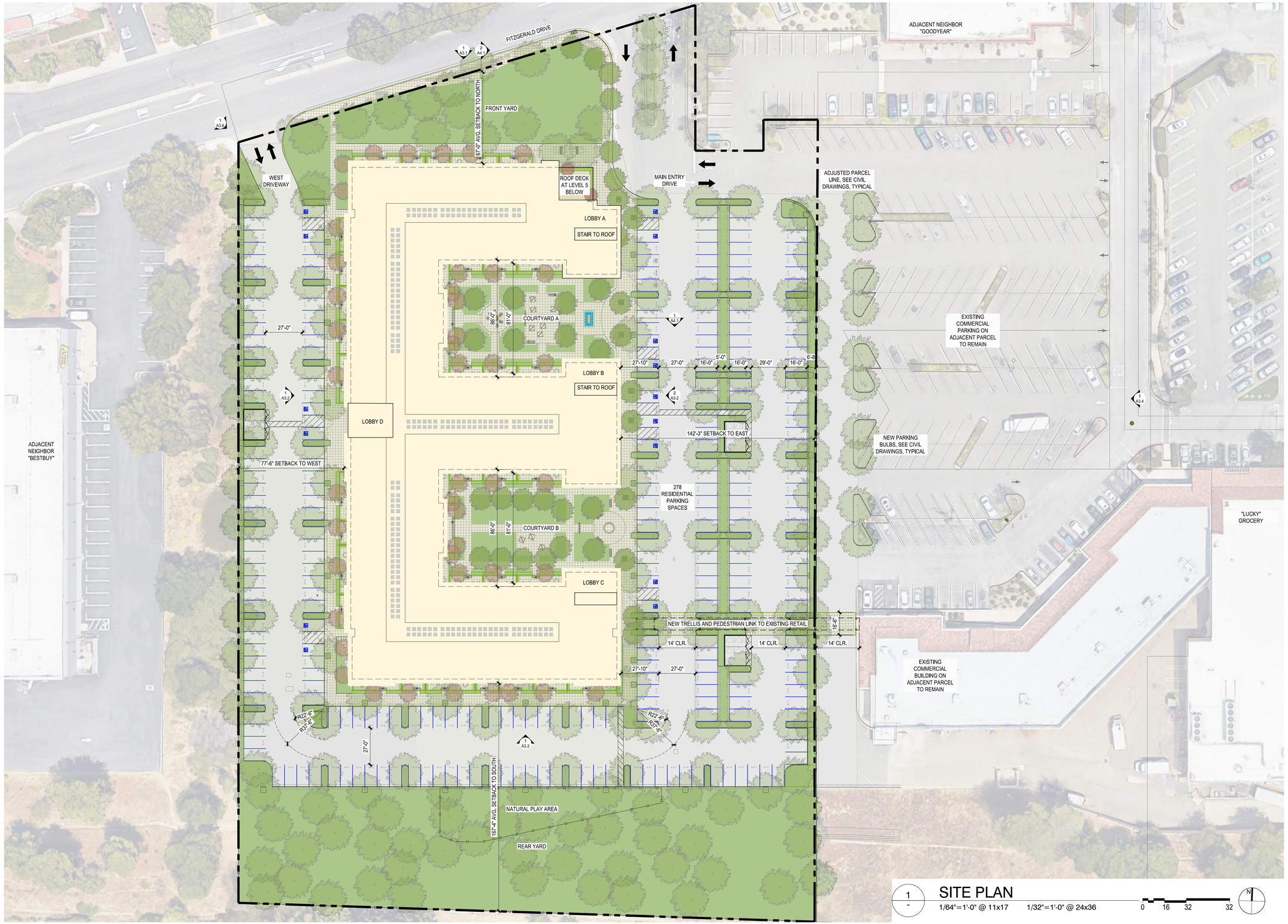
OPEN SPACE DIAGRAMS

A0.1



1 SITE PLAN

1/64"=1'-0" @ 11x17 1/32"=1'-0" @ 24x36

0 16 32 32

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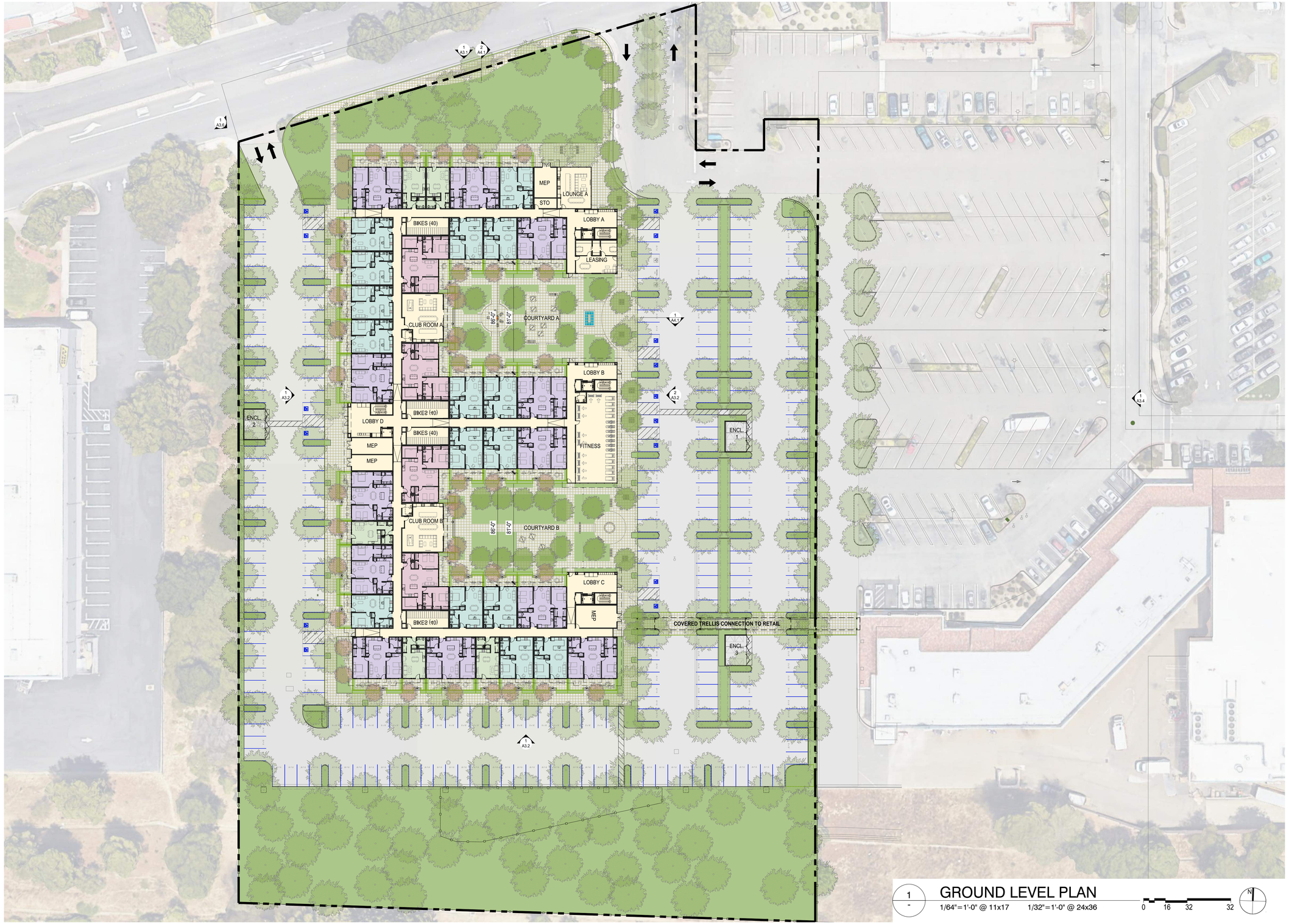
SITE PLAN

A2.0



1 - GROUND LEVEL PLAN

1/64"=1'-0" @ 11x17 1/32"=1'-0" @ 24x36

0 16 32 32

N

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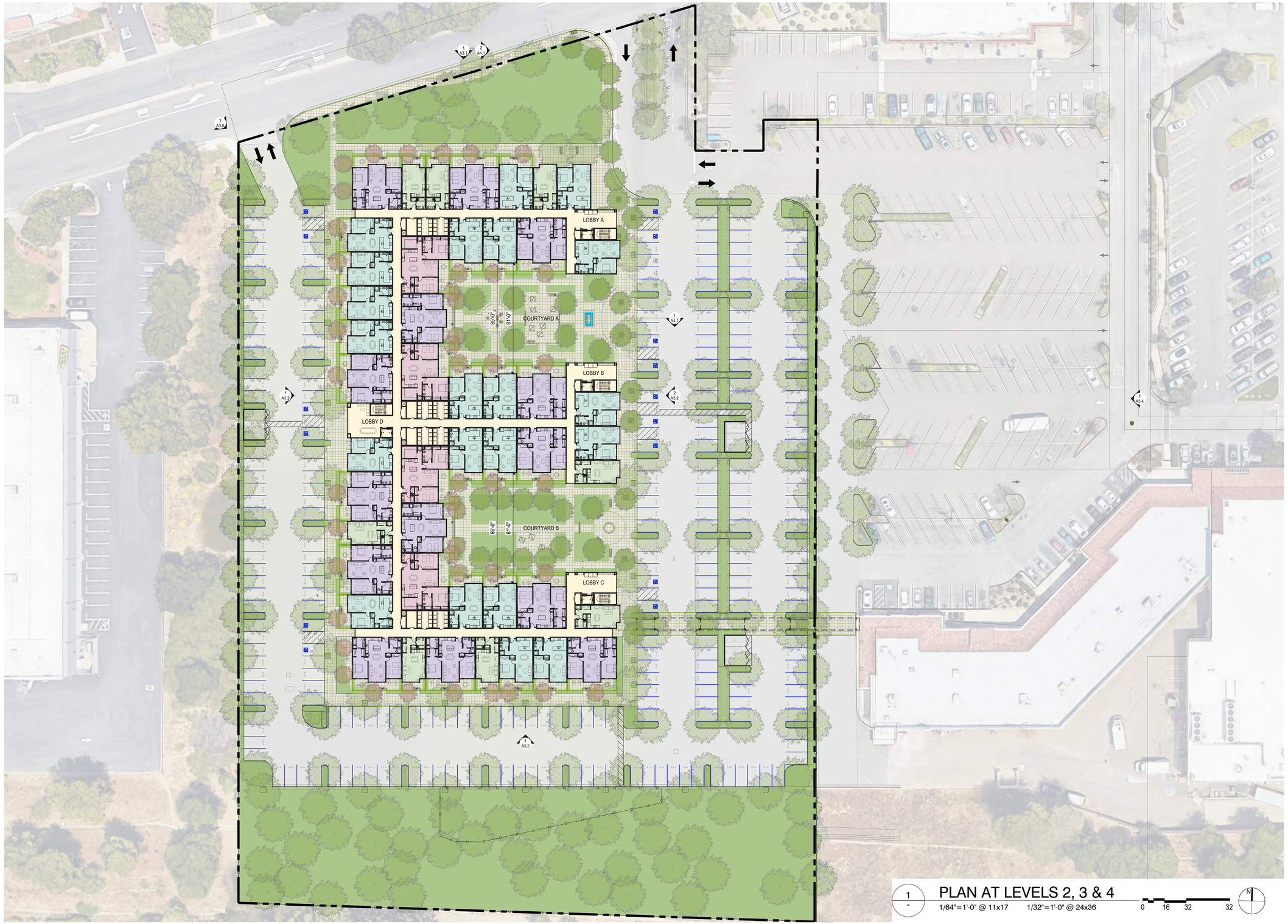
PLAN AT
GROUND LEVEL

A2.1



1 - PLAN AT LEVELS 2, 3 & 4

1/64"=1'-0" @ 11x17 1/32"=1'-0" @ 24x36

0 16 32 32

N

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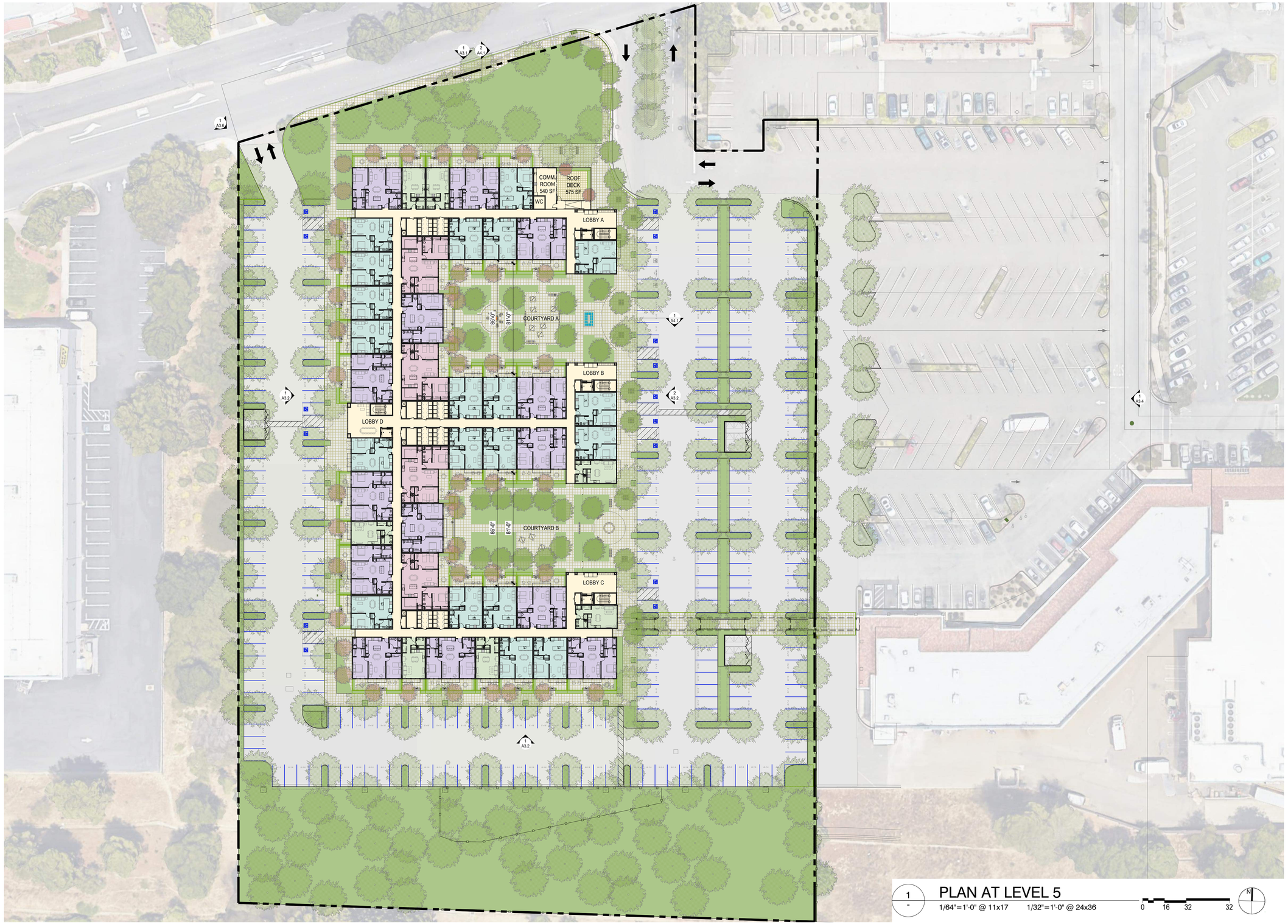
PLAN AT LEVELS
LEVELS 2, 3, & 4

A2.2



1 - PLAN AT LEVEL 5

1/64"=1'-0" @ 11x17 1/32"=1'-0" @ 24x36

0 16 32 32

N

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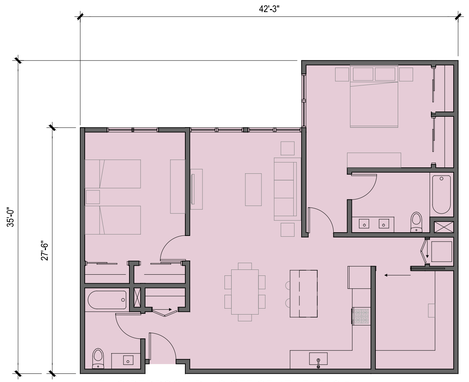
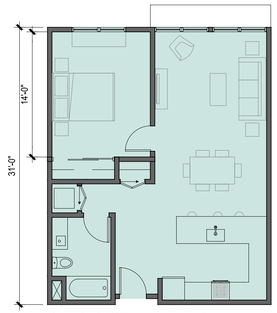
PLAN AT LEVEL
LEVEL 5

A2.3

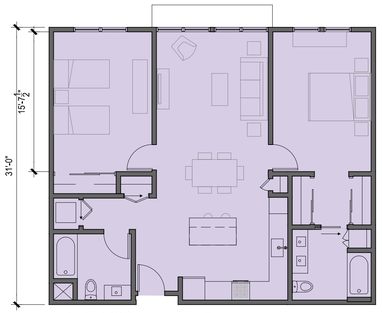


TWO-BEDROOM PLUS OFFICE AT LEVELS 51
,288 SF

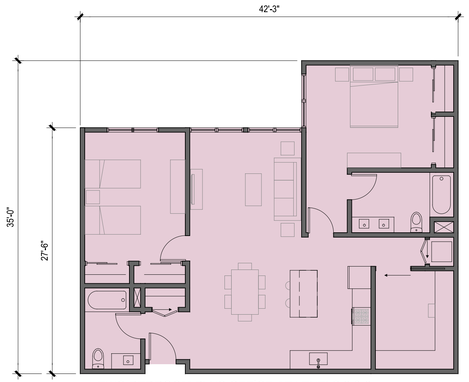
STUDIO AT LEVEL 5
540 SF



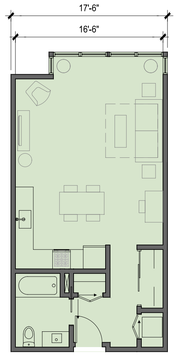
ONE-BEDROOM AT LEVEL 5
771 SF



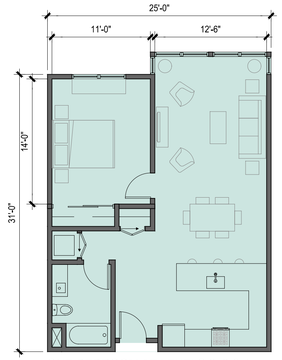
TWO-BEDROOM AT LEVEL 6
1,126 SF



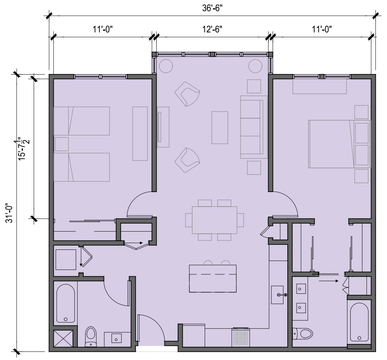
TWO-BEDROOM PLUS OFFICE AT LEVELS 2 & 3
1,288 SF



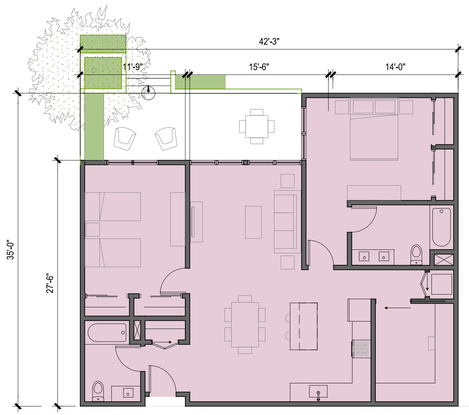
STUDIO AT LEVELS 2, 3 & 4
573 SF



ONE-BEDROOM AT LEVELS 2, 3 & 4
805 SF

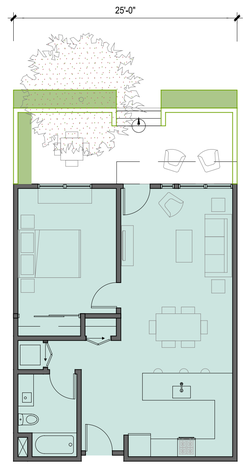


TWO-BEDROOM AT LEVELS 2, 3 & 4
1,162 SF



TWO-BEDROOM PLUS OFFICE AT GROUND LEVEL
1,288 SF

STUDIO AT GROUND LEVEL
532 SF



ONE-BEDROOM AT GROUND LEVEL
771 SF

TWO-BEDROOM AT GROUND LEVEL
1,126 SF

1
-

UNIT PLANS

1/16" = 1'-0" @ 11 x 17" 1/8" = 1'-0" @ 24 x 36"

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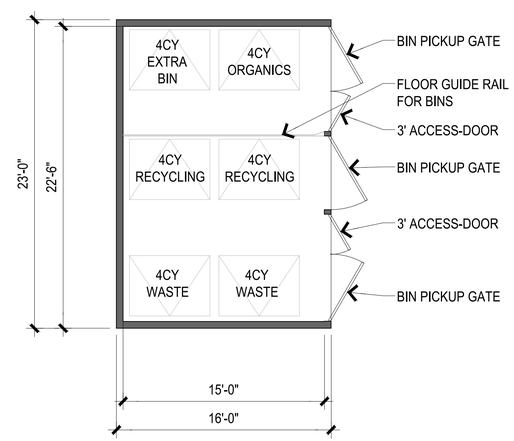
UNIT PLANS

A2.4

Waste and Recycling Calculations

Per Stopwaste.org "Space Guidelines for Recycling, Organics and Refuse Services for Designers of MultiFamily & Commercial Buildings"

	Units	Cubic Yards per Unit	Total CY required	Waste (40%)			Recycling (40%)			Organics (20%)		
				# of Bins	size of bins (CY)	Cubic Yds	# of Bins	size of bins (CY)	Cubic Yds	# of Bins	size of bins (CY)	Cubic Yds
Total Required	223	0.25	55.75 cy			22 cy			22 cy			11 cy
Total provided				7	4	28 cy	7	4	28 cy	4	4	16 cy
Trash Enclosure 1				3	4	12 cy	2	4	8 cy	1	4	4 cy
Trash Enclosure 2				2	4	8 cy	3	4	12 cy	1	4	4 cy
Trash Enclosure 3				2	4	8 cy	2	4	8 cy	2	4	8 cy
Total provided exceeds required by:						26%			26%			43%



TYPICAL ENCLOSURE PLAN
(TYPICAL OF 3 LOCATIONS)

1 WASTE AND RECYCLING CALCULATIONS AND ENCLOSURE LAYOUTS
-
3/32" = 1'-0" @ 11 x 17" 3/16" = 1'-0" @ 24 x 36"

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TRASH & RECYCLING ENCLOSURE PLANS

A2.5

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2 WEST ELEVATION

1 NORTH ELEVATION

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SITE
ELEVATIONS

A3.1

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2 EAST ELEVATION

1 SOUTH ELEVATION

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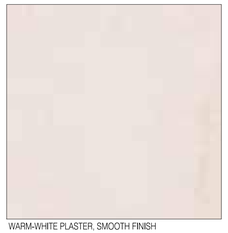
SITE
ELEVATIONS

A3.2

PAINTED TRIM

ACCENT COLOR PLASTER, SMOOTH FINISH

HORIZONTAL SIDING


WARM-WHITE PLASTER, SMOOTH FINISH

VINES AT GROUND LEVEL

CONCRETE BASE AND PLANTERS

1 MATERIALS AND COLORS

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MATERIALS AND COLOR BOARD

A3.3

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1 VIEW OF MAIN PROJECT ENTRY

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CONCEPTUAL RENDERING

A3.4

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1 GROUND LEVEL DETAIL VIEW

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CONCEPTUAL RENDERING

A3.5

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1 VIEW FROM PEDESTRIAN PATH TO RETAIL CENTER

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CONCEPTUAL RENDERING

A3.6

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1 VIEW OF WEST ENTRANCE

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CONCEPTUAL RENDERING

A3.7

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1 SIDEWALK DETAIL ALONG WEST FACADE

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CONCEPTUAL RENDERING

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1 EVENING VIEW FROM PLAZA

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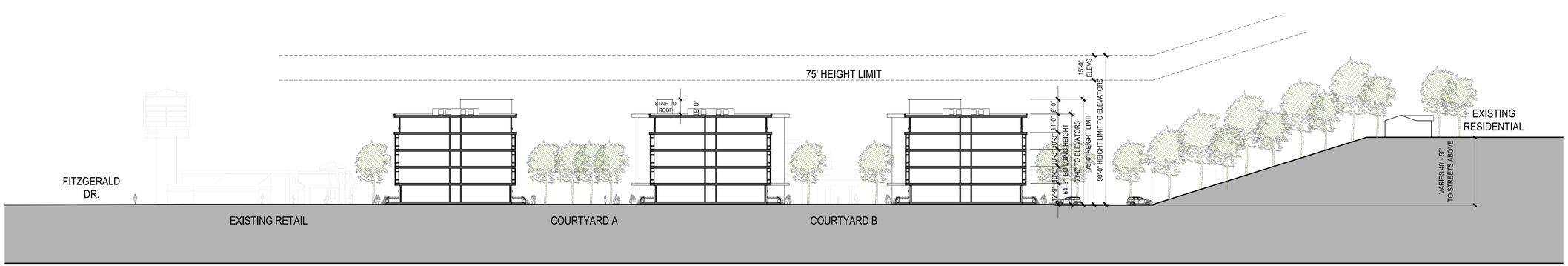
CONCEPTUAL RENDERING

A3.9



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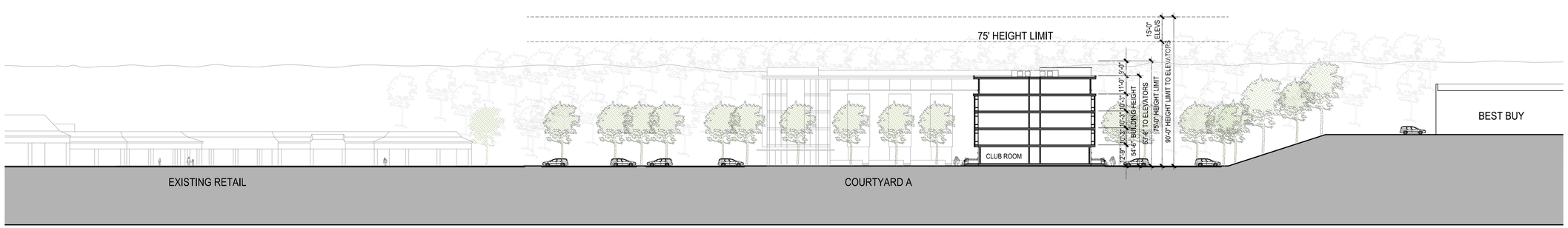
NORTH-SOUTH SECTION (LOOKING EAST)

1/64" = 1'-0" @ 24 x 36" 1/32" = 1'-0" @ 24 x 36"



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EAST-WEST SECTION (LOOKING SOUTH)

1/64" = 1'-0" @ 24 x 36" 1/32" = 1'-0" @ 24 x 36"

TRACHTENBERG ARCHITECTS

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Berkeley, California 94710
510.649.1414
www.TrachtenbergArch.com

LICENSED ARCHITECT
DAVID TRACHTENBERG
C20926
4/30/20_21
RENEWAL DATE
STATE OF CALIFORNIA

PINOLE VISTA

1500 FITZGERALD DR,
PINOLE, CA 94564

04.07.2021 PLANNING SUBMITTAL
07.01.2021 PLANNING SUBMITTAL
06.27.2022 PLANNING SUBMITTAL

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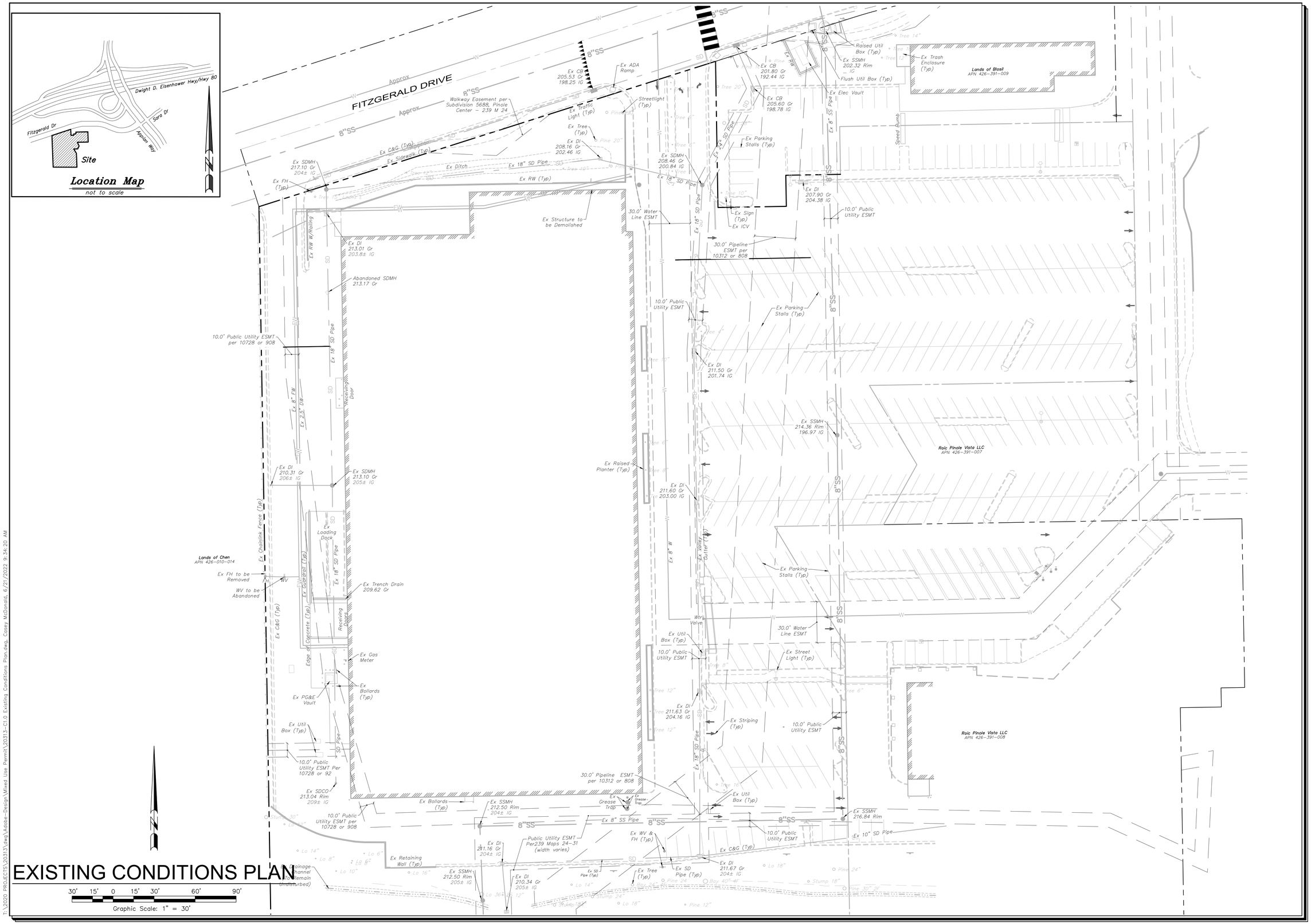
SITE SECTIONS

A4.1



Revisions			
No.	Date	Description	Approved

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David R. Brown, RCE 41833
My license expires 3/31/2022

PINOLE MIXED USE
EXISTING CONDITIONS PLAN

1500 Fitzgerald Drive
Pinole, California
APN 125-551-016

SCALE: AS SHOWN
Date: March 22, 2021
Design by: AP/TRG
Drawn by: TRG
Checked by: CM

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1 of 6 Sheets
Job 20313

NOT FOR CONSTRUCTION

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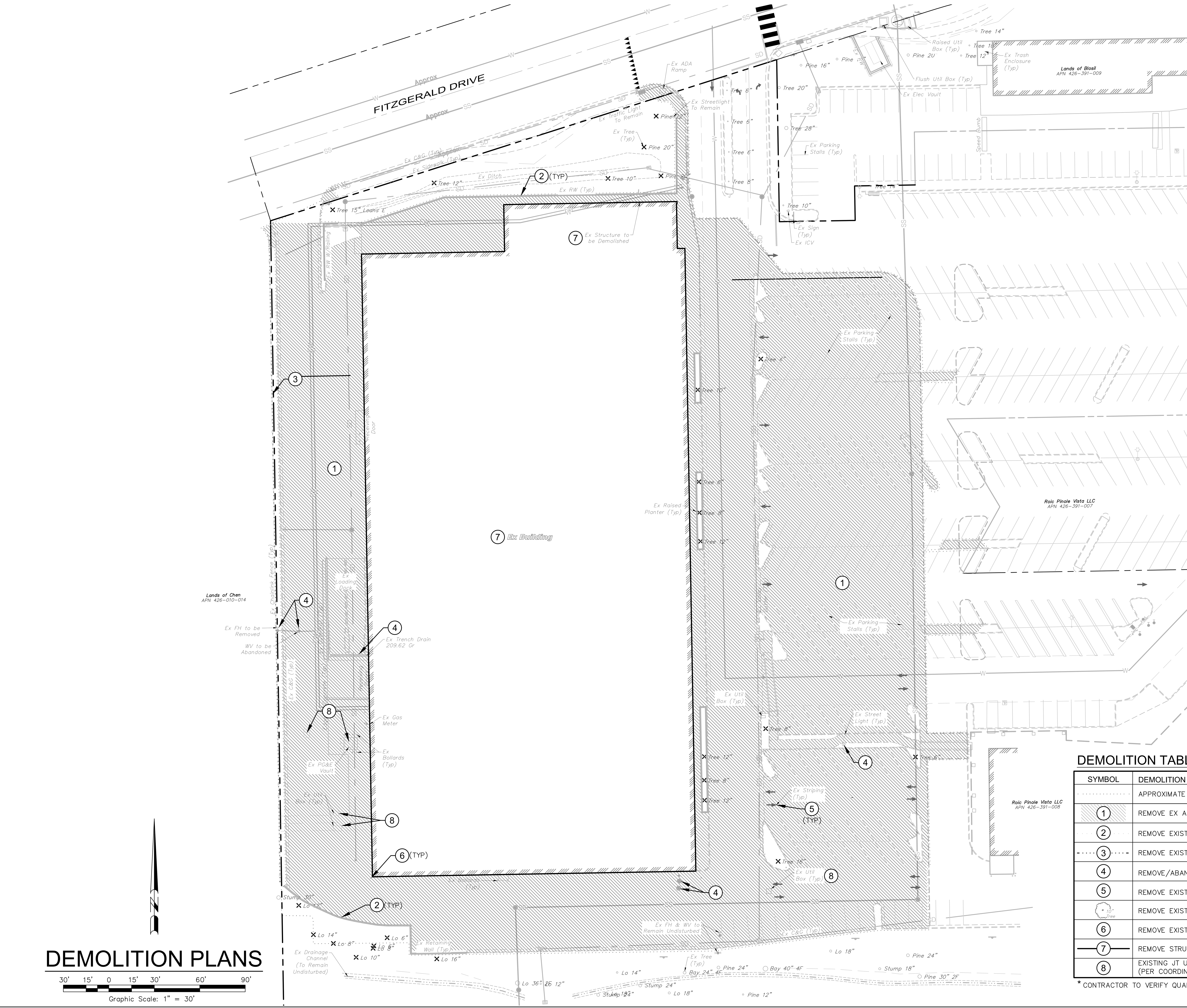

DEMOLITION TABLE *

SYMBOL	DEMOLITION FEATURE	UNITS	QUANTITY
· · · · · · · ·	APPROXIMATE LIMIT OF DEMOLITION WORK	SQ FT	±45,105
1	REMOVE EX ASPHALT/SIDEWALK, CURB & GUTTER	SQ FT	±108,500
2	REMOVE EXISTING WALL	LF	±400
3	REMOVE EXISTING FENCE	LF	±423
4	REMOVE/ABANDON EXISTING UTILITY	EA	±6
5	REMOVE EXISTING EXISTING STRIPING/SIGN	EA	±4
10" Tree	REMOVE EXISTING TREE	EA	±25
6	REMOVE EXISTING BOLLARDS	EA	±24
7	REMOVE STRUCTURE	SF	±91,239
8	EXISTING JT UTILITY TO BE REMOVED OR RELOCATED (PER COORDINATION WITH PG&E)	LF	±5

* CONTRACTOR TO VERIFY QUANTITIES PRIOR TO CONSTRUCTION

T:\2020 PROJECTS\20313\dwg\Adobe-Design\Mixed Use Permit\20313-C1.1 Demolition Plan.dwg, Casey McDonald, 6/21/2022 9:34:27 AM

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PINOLE MIXED USE
DEMOLITION PLANS

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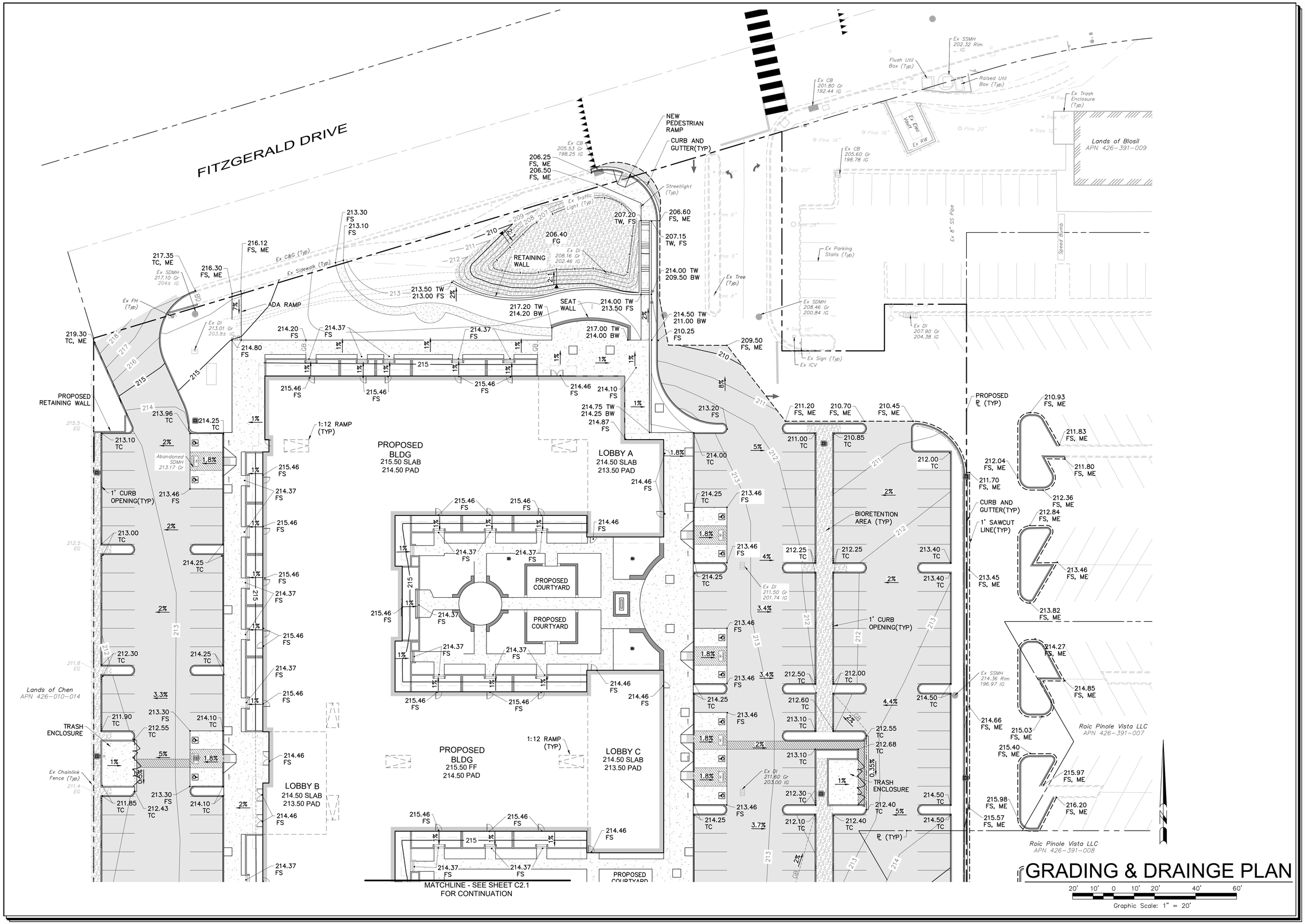

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PINOLE MIXED USE
GRADING & DRAINAGE PLAN

1500 Fitzgerald Drive
Pinole, California
APN 125-551-016

SCALE: AS SHOWN
Date: March 22, 2021
Design by: AP/TRG
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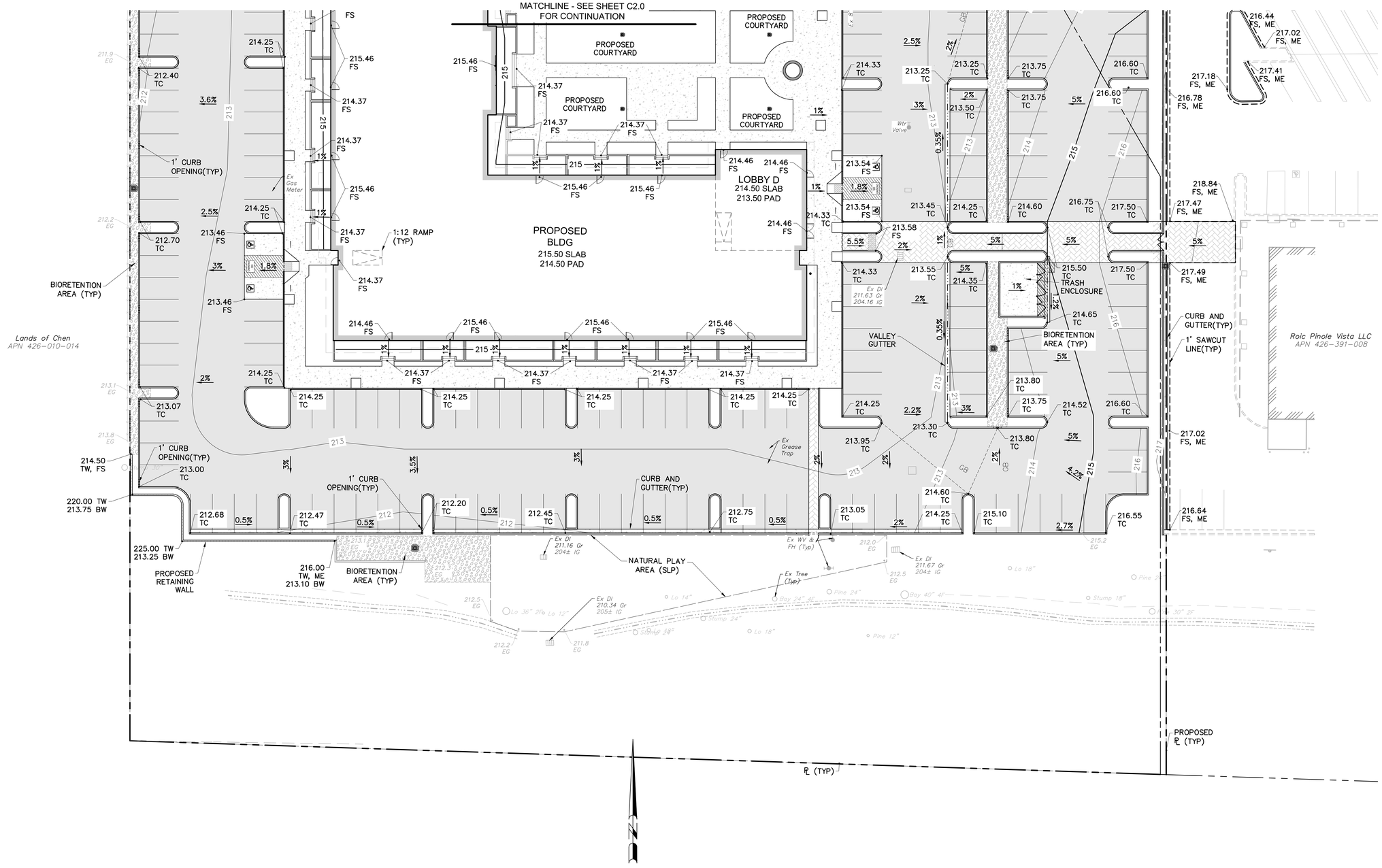

GRADING & DRAINAGE PLAN

20' 10' 0 10' 20' 40' 60'

Graphic Scale: 1" = 20'

Revisions			
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GRADING & DRAINAGE PLAN
1500 Fitzgerald Drive
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APN 125-551-016

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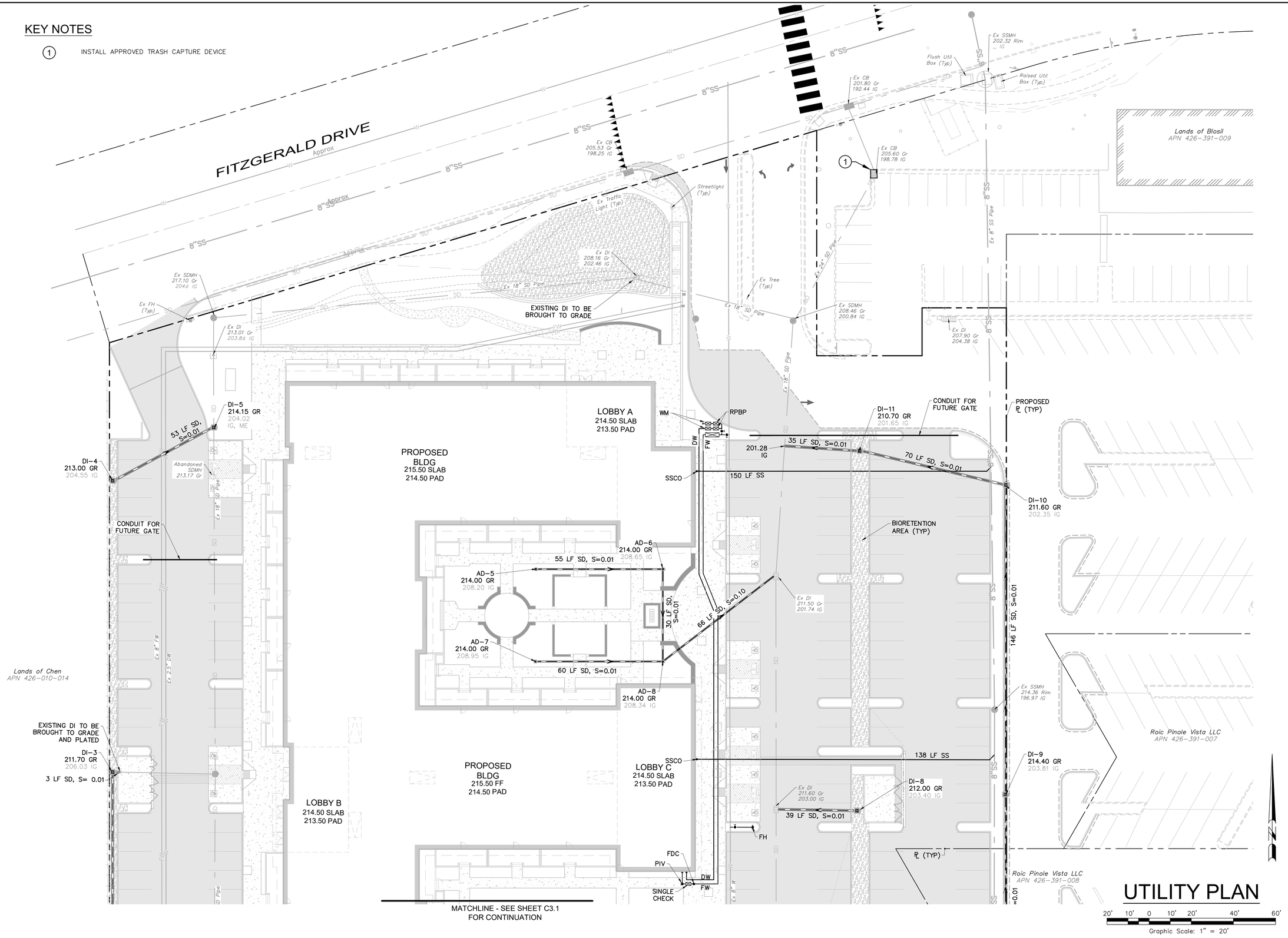
KEY NOTES

1. INSTALL APPROVED TRASH CAPTURE DEVICE



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PINOLE MIXED USE
UTILITY PLAN

1500 Fitzgerald Drive
Pinole, California
APN 125-551-016

SCALE: AS SHOWN
Date: March 22, 2021
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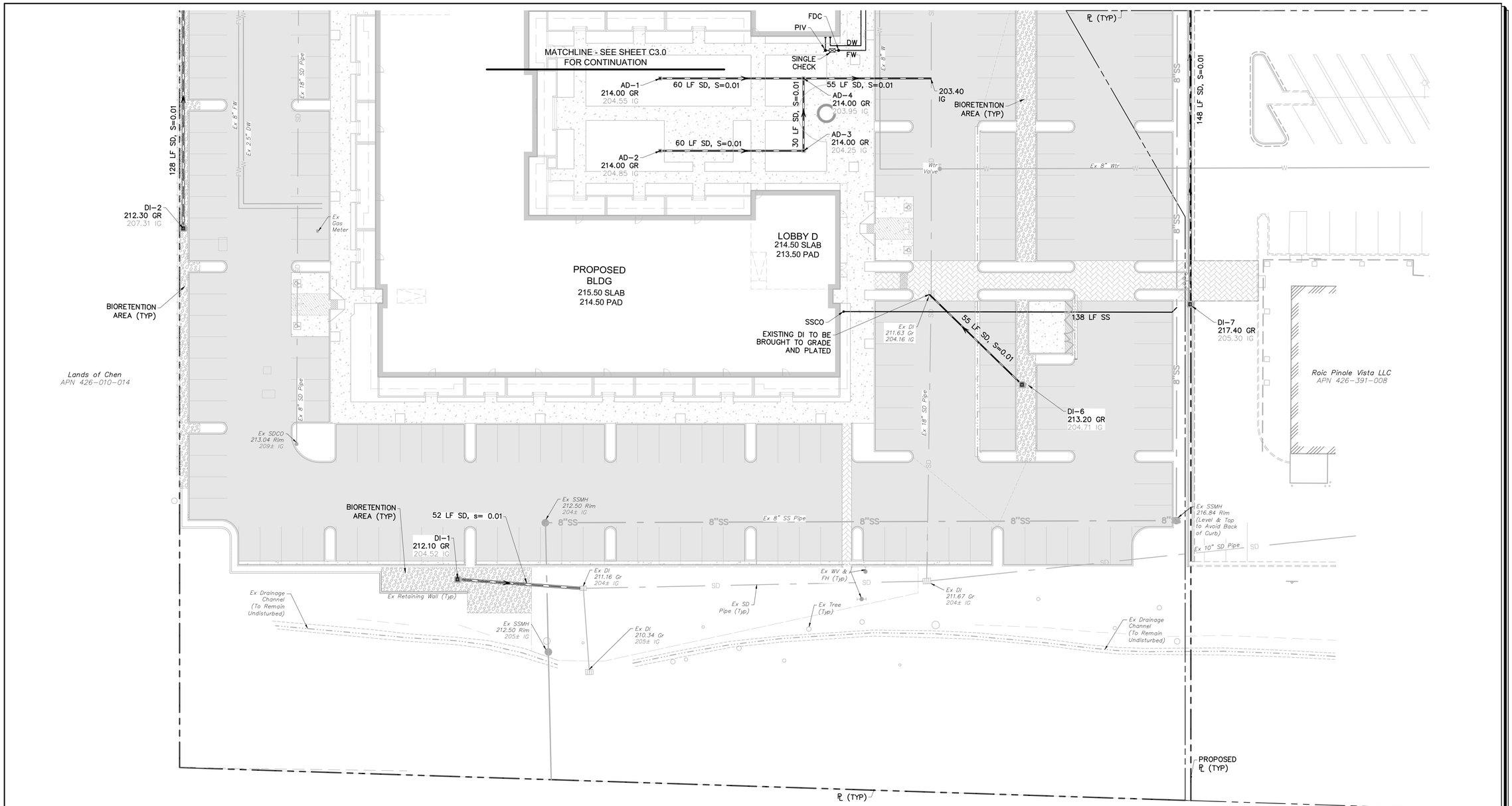

UTILITY PLAN

20' 10' 0 10' 20' 40' 60'

Graphic Scale: 1" = 20'

No.	Date	Description	Approved

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UTILITY PLAN

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U.S.A NOTE
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PRELIMINARY TREE LEGEND

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WATER USE PER WUCOLS IV	QUANTITY	COMMENTS
TREES						
APS	#24	Acer palmatum 'Seiryu'	Seiryu Japanese Maple	.6	10	
APB	#24	Acer palmatum var. atropurpureum 'Bloodgood'	Bloodgood Japanese Maple	.6	23	
ARA	#24	Acer rubrum 'Armstrong'	Armstrong Maple	.6	29	
CCO	#24	Cercis canadensis reniformis 'Oklahoma'	Oklahoma Redbud	.3	2	
CEN	#24	Cornus florida X nuttallii 'Eddies White Wonder'	Eddies White Wonder Dogwood	.6	4	
KPA	#24	Koelreuteria paniculata	Golden Rain Tree	.6	5	City Street Tree
LIN	#24	Lagerstroemia indica 'Natchez'	Natchez Crapemyrtle	.3	28	
OES	#24	Olea europaea " Swan Hill'	Fruitless Olive	.1	4	
PGK	#24	Pistacia chinensis 'Keith Davey'	Chinese pistache	.3	10	
QTO	#24	Quercus tomentella	Island Oak	.3	11	
UPD	#24	Ulmus parvifolia 'Drake'	Drake's Chinese Elm	.3	49	
BIORETENTION AREAS						
	Sod	Biofiltration Sod	"Biofiltration Sod"	0.3		Delta Bluegrass (CA Natives)

TYPICAL PLANT PALETTE

BOTANICAL NAME	COMMON NAME	SIZE	WATER USE PER WUCOLS IV	COMMENTS
Shrubs				
Arctostaphylos densiflora 'Harmony'	Harmony Manzanita	#5	.3	California Native
Berberis thunbergii 'Crimson Pygmy'	Crimson Pygmy Dwarf Japanese Barberry	#5	.6	
Callistemon citrinus 'Little John'	Dwarf Bottlebrush	#5	.3	
Camellia sasanqua 'White Doves'	Camellia 'White Doves'	#5	.6	
Carpenteria californica 'Elizabeth'	Elizabeth Bush Anemone	#5	.3	California Native
Ceanothus maritimus 'Valley Violet'	Valley Violet Ceanothus	#5	.3	California Native
Ceanothus x 'Concha'	Concha California Lilac	#5	.3	California Native
Cercis occidentalis	Western Redbud	#15	.1	California Native
Chaenomeles speciosa 'Scarlet Storm'	Scarlet Storm Flowering Quince	#5	.3	
Daphne odora 'Aureo-marginata'	Variegated Winter Daphne	#5	.3	
Euonymus japonicus 'Moness'	Silver Princess™ Boxleaf Euonymus	#5	.3	
Fremontodendron californicum	Flannel Bush	#5	.1	California Native
Lavandula x intermedia 'Phenomenal'	Phenomenal French Lavender	#5	.3	
Loropetalum chinense 'Kurenai'	Jazz Hands® Dwarf Pink Chinese Fringe-flower	#5	.3	
Nandina domestica 'Compacta'	Dwarf Heavenly Bamboo	#5	.3	
Pittosporum tobira 'Wheeler's Dwarf'	Wheeler's Dwarf Japanese Mock Orange	#5	.3	
Rhamnus californica 'Mound San Bruno'	Mound San Bruno Coffee Berry	#5	.3	California Native
Rhaphiolepis indica 'Clara'	Clara Indian Hawthorn	#5	.3	California Native
Sarcococca ruscifolia	Fragrant Sweet Box	#5	.3	
Perennials				
Achillea millefolium 'Salmon Beauty'	Salmon Beauty Yarrow	#1	.3	California Native
Achillea millefolium 'Sonoma Coast'	White Yarrow	#1	.3	California Native
Agapanthus praecox orientalis 'Snow Storm'	Snow Storm Lily Of The Nile	#5	.6	
Aspidistra elatior	Cast Iron Plant	#1	.3	
Erigeron glaucus 'Wayne Roderick'	Wayne Roderick Fleabane	#1	.6	California Native
Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	#1	.3	
Perovskia atriplicifolia 'Blue Spire'	Russian Sage	#1	.3	
Phormium tenax 'Jack Spratt'	Jack Spratt New Zealand Flax	#5	.3	
Salvia 'Celestial Blue'	Purple Sage	#1	.3	
Salvia leucantha	Mexican Bush Sage	#5	.3	
Salvia x jamensis 'Ignition Purple'	'Ignition Purple' Salvia	#1	.3	
Groundcover				
Ornamental Grass				
Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Ornamental Grass	#1	.3	California Native
Calamagrostis 'Foliosa'	Mendocino Reed Grass	#1	.6	California Native
Carex divulsa	Berkeley Sedge	#1	.3	
Carex tumulicola	Foothill Sedge	#1	.3	California Native
Festuca mairei	Atlas Fescue	#1	.3	
Muhlenbergia dubia	Pine Muhly	#1	.3	
Muhlenbergia rigens	Deer Grass	#1	.3	California Native
Pennisetum alopecuroides 'Hamelin'	Dwarf Fountain Grass	#1	.3	
Other				
Mulch: Fir Bark 1-1/2" Minus	Medium Walk-On Bark			3" Depth, All Landscape Areas
Linear Root Barrier	Root Solutions , or Equal			24" Depth, Continuous

CONCEPTUAL LANDSCAPE
Scale: 1" = 30'-0"

THESE DRAWINGS COMPLY WITH THE CRITERIA OF THE ORDINANCE. ORDINANCE REQUIREMENTS HAVE BEEN APPLIED FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN AND THE LANDSCAPE DESIGN PLAN."

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DONALD G. MACNAIR
NO. 2800
EXP. 8/31/23
STATE OF CALIFORNIA

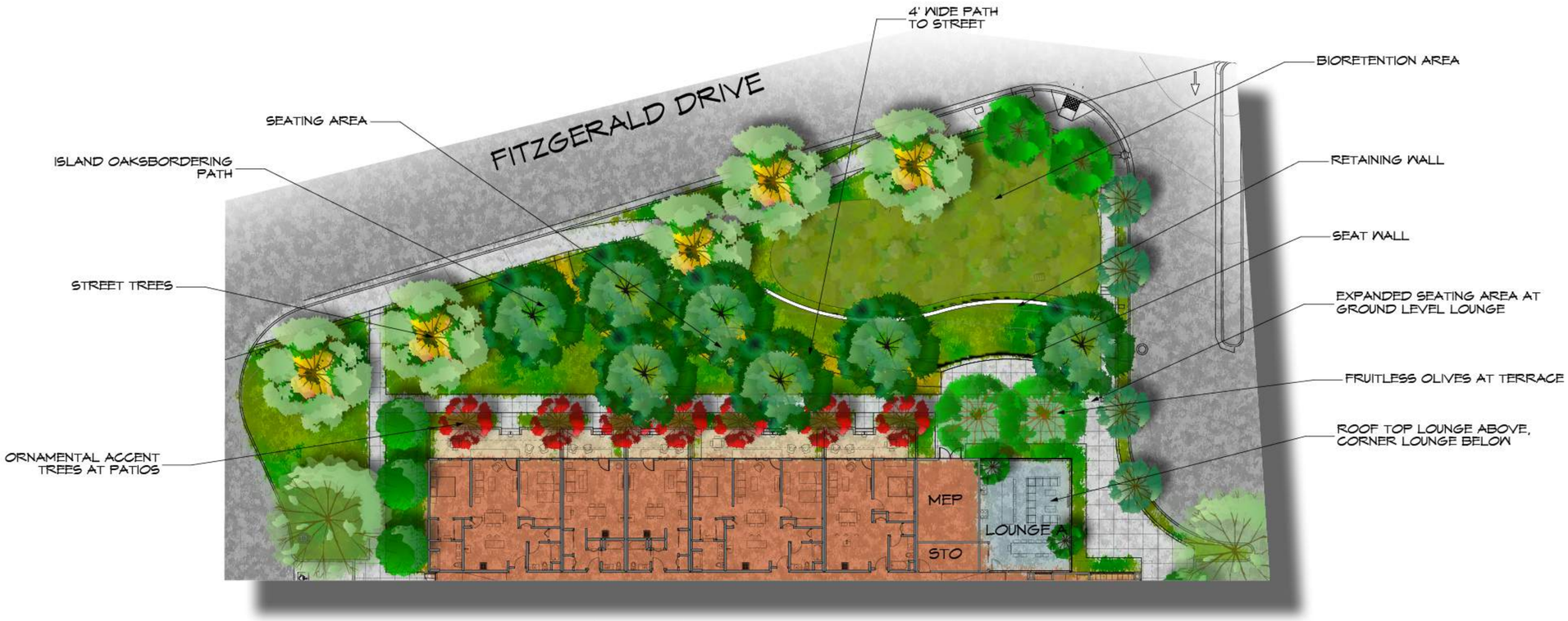
MACNAIR
LANDSCAPE ARCHITECTURE
POST OFFICE BOX 251
KENWOOD, CALIFORNIA 95452
TEL (707) 833-2285
ELA #2800
don@macnairlandscape.com

CONCEPTUAL LANDSCAPE

PINOLE MIXED-USE
1500 FITZGERALD DRIVE
PINOLE, CA 94564

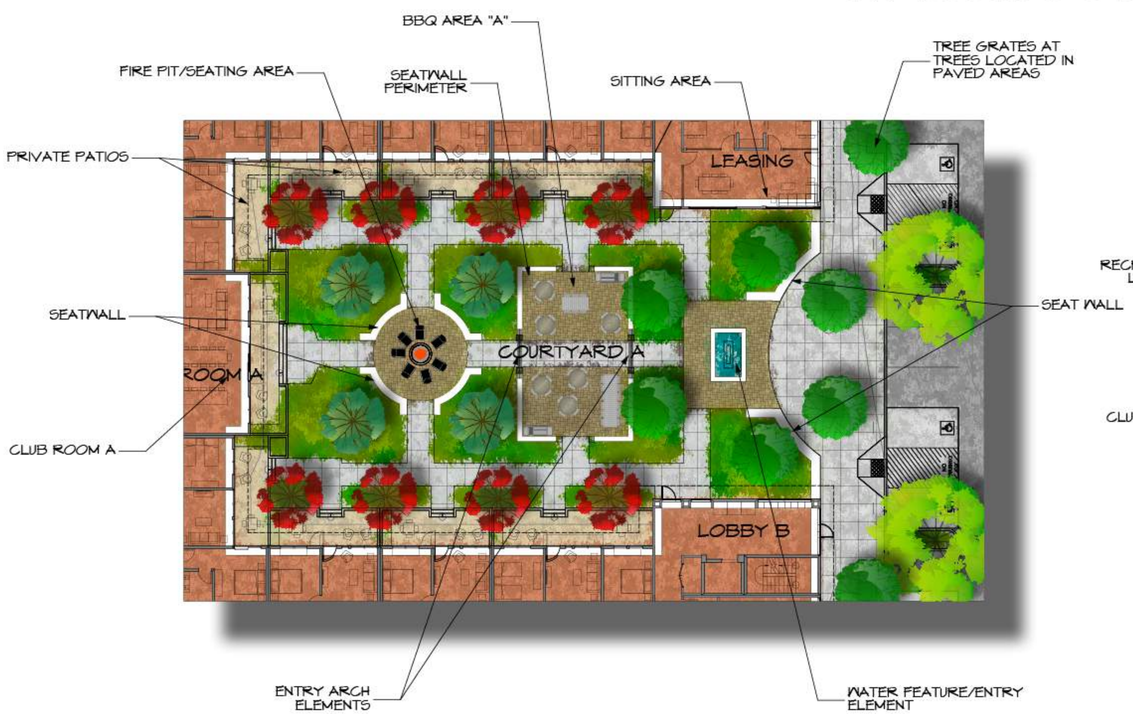
DATE: 6/23/22
MLA JOB #: 2020-28
SCALE: 1" = 30'
DRAWN: DM

L1.1



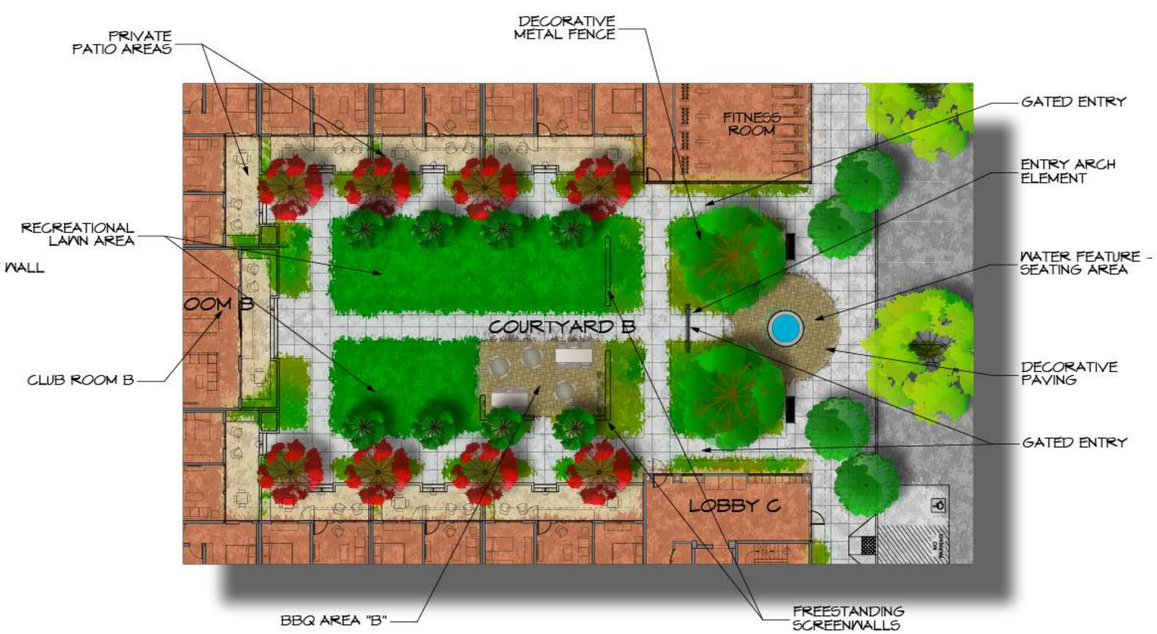
STREETSIDE COMMON SPACE

Scale: 1/16" = 1'-0"



COURTYARD A

Scale: 1/16" = 1'-0"



COURTYARD B

Scale: 1/16" = 1'-0"

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COMMON AREA

PINOLE MIXED-USE

1500 FITZGERALD DRIVE
PINOLE, CA 94564

DATE: 6/23/22
MLA JOB #: 2020-28
SCALE: 1" = 30'
DRAWN: DM

L1.2

ACER PALMATUM
'BLOODGOOD'

ACER PALMATUM 'SERIYU'

ACER RUBRUM
'ARMSTRONG'

CORNUS
'EDDIES WHITE WONDER'

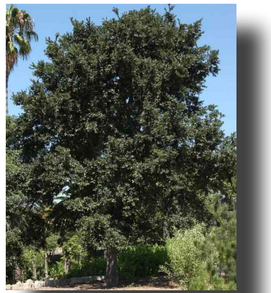
CERCIS CANADENSIS VAR.
TEXENSIS 'OKLAHOMA'

KOELRETERIA PANICULTA

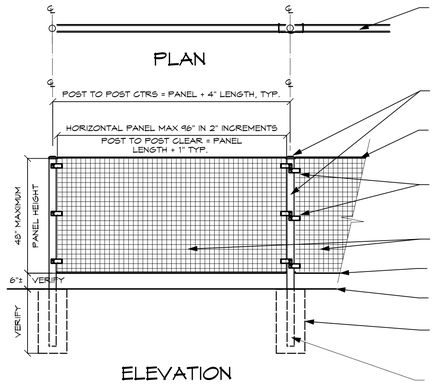
LAGERSTROMIA INDICA
'NATCHEZ'

OLEA EUROPAEA
'SWAN HILL'

PISTACIA CHINENSIS
'KEITH DAVEY'



ULMUS PARVIFOLIA
'DRAKE'



FREESTANDING HORIZONTAL
FENCE/SCREEN

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ARCHITECTURE

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TREE IMAGES

PINOLE MIXED-USE

1500 FITZGERALD DRIVE
PINOLE, CA 94564

DATE: 6/23/22
MLA JOB #: 2020-28
SCALE: 1" = 30'
DRAWN: DM

L1.3

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IRRIGATION AND HYDROZONE KEYNOTES

1. CROSS HATCHED AREAS INDICATE BIORETENTION WITH ECOMAT
2. GREEN AREA DESIGNATES "LOW WATER USE" PLANT SPECIES
3. YELLOW AREA DESIGNATES "MODERATE WATER USE" PLANT SPECIES
4. RED AREA DESIGNATES "HIGH WATER USE" PLANT SPECIES
5. INGROUND PLANTER AREAS IN PATIOS
6. INSTALL DRIPLINE 3" BELOW GRADE IN ALL RAISED PLANTERS AT 24" OC TYPICAL; ALL DRIPLINE SHALL BE INSTALLED PARALLEL AND HELD BACK FROM EDGE 1/2 THE ROW SPACING.
7. ROOF TOP TERRACE
8. LAWN AREA (OR OPTIONAL ARTIFICIAL TURF)
9. TREE BUBBLERS, TWO PER TREE, TYPICAL, ONE ABOVE GRADE STREAM BUBBLER AND ONE SUB-SURFACE BUBBLER
10. ECO-MAT: INSTALL 4" BELOW GRADE IN BIORETENTION AREAS AT 14" OC; LOW WATER USE, TYPICAL
11. 4' SQUARE TREE WELL WITH TREE GRATE, TYPICAL IN PAVED AREAS
12. BLUE AREA DESIGNATES "VERY LOW WATER USE" PLANT SPECIES
13. WATER FEATURE - "HIGH WATER USE"
14. TREE HYDROZONE AREAS ARE CALCULATED WITH A 6' WETTED DIAMETER (28.26 SF PER TREE).

THESE DRAWINGS COMPLY WITH THE CRITERIA OF THE ORDINANCE. ORDINANCE REQUIREMENTS HAVE BEEN APPLIED FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN AND THE LANDSCAPE DESIGN PLAN.

MAWA AND ETWU CALCULATIONS

1) Maximum Applied Water Allowance (MAWA)

MAWA = (ETo) (0.62) ((0.55 X LA) + (0.45 X SLA))

Where:
ETo = Annual Net Reference Evapotranspiration (inches)
0.45 = ET Adjustment Factor (Commercial)
0.55 = ET Adjustment Factor (Residential)
LA = Landscaped Area (square feet)
0.62 = Conversion factor (to gallons per square foot)
SLA = Portion of the landscape area identified as Special Landscape Area (square feet)
0.45 = the additional ET adjustment factor for Special Landscape Area (1.0 - 0.55 = 0.45) (Commercial)
0.55 = the additional ET adjustment factor for Special Landscape Area (1.0 - 0.45 = 0.55) (Residential)

Commercial (C) or Residential (R) C

A) Net Evapotranspiration Calculation

Local Reference ETo	41.80					
26.70"/yr (Annual Rainfall)	X	.25	=	6.68 (Effective Rainfall)		
Net Evapotranspiration Calculation = Annual ETo - Effective Rainfall					=	35.13

B) Adjusted Landscape Area Calculation

43,530 sf (Landscape Area)	X	0.45 Adjustment Factor	=	19,592.10 sf
0.00 sf (Special Landscape Area)	X	0.55 Adjustment Factor	=	0.00 sf
		Sum of Adjusted Landscape Area	=	19,592.10 sf

MAWA=	35.125	X	.62	X	19,592 sf	=	426,664 gal/yr

2) Estimated Total Water Use (ETWU)

A) Net Evapotranspiration Calculation = 35.13 sf

Net Evapotranspiration Calculation = Annual ETo - Effective Rainfall

B) Adjusted Landscape Area Calculation

113.10 sf Very Low Water Use	X .1	11.31 sf
38,901 sf Low Water Use	X .3	11,694.36 sf
2,515 sf Moderate Water Use	X .6	1,509.14 sf
1,428.50 sf High Water Use / Water Feature	X .8	154.24 sf
	Sum of Adjusted Landscape Area =	13,369.14 sf

ETWU =	35.13	X	.62	X	13,369 sf	/	0.81	=	363,933 gal/yr

Irrigation Efficiency Factor

Square Footage of Landscape on Drip	41,609.60 sf
Square Footage of Landscape on Spray	1,840.31 sf
Total Square Footage of Landscape	43,449.91 sf
Adjusted Irrigation Efficiency Factor	0.81

CONCEPT HYDROZONE DETAIL TABLE

Name	Method	Water Use	Water Use Value	Hydrozone Area in SF	% of Landscape
Bioretention	Sub-Surface Dripline	Low	0.3	8,284.21 sf	19.0%
Lawn	Overhead Spray	High	1	1,840.31 sf	4.2%
Patio Planters	Sub-Surface Dripline	Low	0.3	112.86 sf	0.4%
Patio Planters	Sub-Surface Dripline	Moderate	0.6	400.52 sf	1.0%
Roof	Sub-Surface Dripline	Moderate	0.6	93.45 sf	0.2%
Shrub Areas	Sub-Surface Dripline	Low	0.3	27,802.05 sf	63.9%
Tree	Root Watering System	Moderate	0.6	1,721.35 sf	4.0%
Tree	Root Watering System	Low	0.2	28.27 sf	0.1%
Tree	Root Watering System	Very Low	0.1	113.10 sf	0.3%
Tree	Root Watering System	Low	0.3	2,698.11 sf	6.2%
Water Feature	Water Feature	High	1	28.27 sf	0.2%
				43,530 sf	100%

CONCEPT SUMMARY HYDROZONE TABLE

PLANT TYPE	AREA	% OF LANDSCAPE
Very Low	113.10	0%
Low	38,401.30	90%
Moderate	2,515.32	6%
High	1,428.53	4%
Total	43,530.14	100%

TYPICAL IRRIGATION EQUIPMENT

EQUIPMENT	MANUFACTURER	MODEL	REMARKS
STREAM BUBBLER: 6" POP-UP	HUNTER	PROS-06-CV-R/PRS30-MSBN-25Q	TREE WELL BUBBLER, AIM AT ROOT BALL; 1 PER TREE
ROOT WATERING SYSTEM	HUNTER	RZWS-18-25-CV	1 PER TREE
1" NORMALLY CLOSED MASTER VALVE	HUNTER	ICV-101G	INSTALL DOWNSTREAM FROM BACKFLOW PREVENTER
REMOTE CONTROL VALVE: TREE BUBBLER	HUNTER	ICV-101G-AS-ADJ	TREE BUBBLER CIRCUIT VALVE; SEE PLAN FOR SIZE
REMOTE CONTROL VALVE: DRIP CIRCUIT	HUNTER	ICZ-101-LF-25, ICZ-101-25	DRIP CIRCUIT VALVE
6 STATION BASE CONTROLLER (2 WIRE CONFIGURATION)	HUNTER	IC-600-SS	MOUNT ON PANEL AT EYE LEVEL
DUAL DECODER MODULE	HUNTER	DUAL -1, DUAL -2, DUAL -S	
DUAL SURGE ARRESTOR	HUNTER	DUAL -S	
DUAL DECODER OUTPUT MODULE	HUNTER	DUAL-48M	
SOLAR SYNC SENSOR (WIRELESS)	HUNTER	WSS-SEN	MOUNT AT ROOF LINE ABOVE CONTROLLER LOCATION
R.P. BACKFLOW PREVENTER - 1"	FEBCO	860U	
BACK FLOW PREVENTER ENCLOSURE	LE MEUR	BF 18" X 30" X 30"	INSTALL PER MANUF. SPECS
QUICK COUPLER W/ COVER	CHAMPION	QCV-075V	SEE PLAN FOR SIZE
BALL VALVE IN VALVE BOX	WATTS	B6400 SERIES	MATCH MAINLINE SIZE; REFER TO DETAIL
AUTOMATIC LINE FLUSH VALVE	HUNTER	AFV-T	INST. IN 6" VALVE BOX @ END OF CIRCUIT
AIR RELIEF VALVE	HUNTER	AVR-075	INST. IN 6" VALVE BOX @ HIGH POINT OF CIRCUIT
PIPE AND WIRE CHASE	PVC	CL 200	SEE PLAN FOR SIZE
SUB-SURFACE BIOSWALE IRRIGATION	HUNTER	ECO-MAT 17MM	INSTALL 4" BELOW GRADE ALL BIOSWALE AREAS
POLY TO PVC CONNECTOR W/ COMPRESSION FITTING		SEE DETAIL G/L3	
LANDSCAPE DRIPLINE	RAINBIRD	XFS-06-12-XX	INSTALL 3" BELOW GRADE @ SPACING SHOWN
MAINLINE	PVC	SCH 40 (1-1/2" AND SMALLER)	
LATERAL	PVC	SCH 40	
FLOW SENSOR	CST	FSI-T10-000	INSTALL AT POINT OF CONNECTION
WATER METER			REFER TO CIVIL DRAWINGS

CONCEPT IRRIGATION PLAN

Scale: 1" = 30'-0"

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REGISTERED LANDSCAPE ARCHITECT
DONALD G. MACNAIR
NO. 2800
EXP. 8/31/22
STATE OF CALIFORNIA

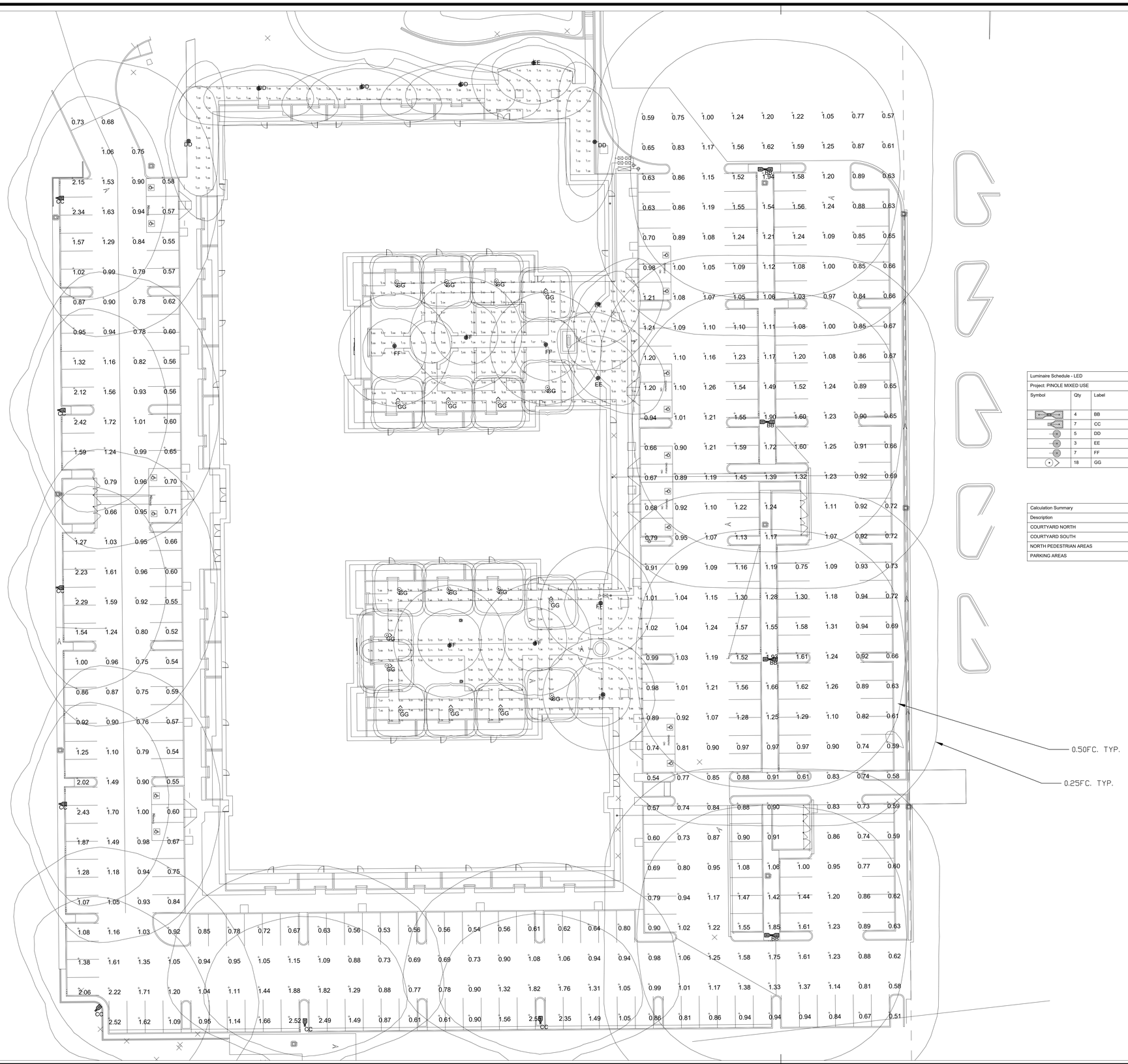
MACNAIR
LANDSCAPE ARCHITECTURE
POST OFFICE BOX 251
KENWOOD, CALIFORNIA 95452
TEL (707) 833-2288
RLA #2800
don@macnairlandscapes.com

CONCEPT IRRIGATION PLAN

PINOLE MIXED-USE
1500 FITZGERALD DRIVE
PINOLE, CA 94564

DATE: 6/23/22
MLA JOB #: 2020-28
SCALE: 1" = 30'
DRAWN: DM

L2.1



Luminaire Schedule - LED								
Project: PINOLE MIXED USE								
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Luminaire Watts	Description	Filename
	4	BB	Back-Back	0.900	11141	74.35753	P26-48L-500-NW-G2-5W	p26-48l-500-nw-g2-5w.ies
	7	CC	Single	0.900	10790	74.35753	P26-48L-500-NW-G2-4	p26-48l-500-nw-g2-4.ies
	5	DD	Single	0.900	2137	14.3	P15-P-A01-740-T2M @ 14'	P15-P-A01-740-T2M.ies
	3	EE	Single	0.900	2154	14.3	P15-P-A01-740-T4S	P15-P-A01-740-T4S.ies
	7	FF	Single	0.900	2251	14.3	P15-P-A01-740-T5S	P15-P-A01-740-T5S.ies
	18	GG	Single	0.900	2195	23.1	PBL-42-14L-450-NW-G2-5-UNV	pbl-14l-450-nw-g2-5-unv.ies

Calculation Summary							
Description	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
COURTYARD NORTH	Illuminance	Fc	2.42	12.55	0.19	12.74	66.05
COURTYARD SOUTH	Illuminance	Fc	2.80	15.58	0.45	6.22	34.62
NORTH PEDESTRIAN AREAS	Illuminance	Fc	1.49	2.78	0.52	2.87	5.35
PARKING AREAS	Illuminance	Fc	1.06	2.55	0.51	2.08	5.00

ALL VALUES SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES AT GRADE

PHOTOMETRIC DATA USED AS INPUT FOR THESE CALCULATIONS IS BASED ON ESTABLISHED IES PROCEDURES AND PUBLISHED LAMP, RATINGS, FIELD PERFORMANCE WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS.

Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

Associated Lighting Representatives, Inc.

ASSOCIATED LIGHTING REPRESENTATIVES, INC
7777 PARDEE LANE
P.O. BOX 2265
OAKLAND, CA 94621
PHONE: (510) 638-0158 - FAX (510) 638-2908

REPORT FOR: MACNAIR LANDSCAPE ARCHITECTURE
BY: APPLICATIONS ENGINEERING; RAMON ZAPATA
SALES REPRESENTATIVE: ALR; TIM HALEY

AGI32 VERSION 20.1
AGI (C) 2021 LIGHTING ANALYSTS, INC.
10268 W. CENTENNIAL ROAD, SUITE 202
LITTLETON, CO 80127

PROJECT DESCRIPTION

PINOLE MIXED USE

.

DRAWING NO. / INPUT FILE
19968HAL.DWG / 19968HAL.A32

SCALE	SHEET	DATE	REV
1" = 20'	1 OF 1	05.13.2022	X

Attachment D

May 25, 2022

Mr. Rich Schoebel
ROIC California, LLC
11250 El Camino Real, Suite 200
San Diego, CA 92130

Parking Study for the Pinole Vista Shopping Center

Dear Mr. Schoebel;

As requested, W-Trans has prepared a parking analysis for the Pinole Vista Shopping Center in the City of Pinole. The purpose of this letter is to determine if the shopping center's proposed parking supply is sufficient to meet the anticipated parking demand given the elimination of some spaces to accommodate the adjacent Pinole Vista residential development.

Project Description

The Pinole Vista Shopping Center is proposed to include 157,593 square feet of commercial space and retain a parking supply of 676 spaces (i.e., its current 848 spaces minus the 172 spaces displaced by the neighboring Pinole Vista residential development).

Parking Analysis

The peak parking demand for the shopping center was estimated using standard rates published by the Institute of Transportation Engineers (ITE) in *Parking Generation*, 5th Edition, 2019. Based on the average peak weekday and Saturday parking generation rates for a Shopping Center (ITE LU #820), a maximum of 459 spaces would be needed. The proposed parking supply of 676 spaces would be adequate to accommodate the estimated parking demand for the shopping with a surplus of 217 parking spaces at peak Saturday hour. It should be noted as well that the proposed supply would accommodate the peak demand (589 spaces) using even the conservative 85th percentile peak ITE rates.

The expected demand and proposed parking supply are shown in Table 1.

Table 1 – Parking Analysis

Land Use	Units	Rate	Parking Spaces
ITE Parking Demand Estimate			
Shopping Center (Weekday)	157.593 ksf	1.95 spaces/ksf	307
Shopping Center (Saturday)	157.593 ksf	2.91 spaces/ksf	459
ITE Estimated Peak Parking Demand			*459*
Proposed Parking Supply			**676**

Notes: ksf = 1,000 square feet

Conclusions and Recommendations

- The proposed shopping center parking supply of 676 stalls significantly exceeds the estimated peak demand of 459 spaces.

- Given a projected parking supply that is estimated to exceed projected demand, no parking deficits are anticipated to be caused by the reduction in stalls to accommodate the Pinole Vista residential development.

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Brian Canepa, TDM-CP
Principal

BAC/mes/PIN003.L5

February 2, 2022

Mr. Rich Schoebel
ROIC California, LLC
11250 El Camino Real, Suite 200
San Diego, CA 92130

DRAFT Pinole Vista Transportation Demand Management Plan

Dear Mr. Schoebel;

As requested, W-Trans has prepared a Transportation Demand Management (TDM) Plan for the proposed Pinole Vista development to be located at 1500 Fitzgerald Drive in the City of Pinole. The purpose of this letter is to present potential TDM measures and quantify the resulting estimated vehicle trip reductions.

Project Description

The proposed project would replace an existing 91,342 square foot vacant commercial building with a five-story residential building consisting of 223 units. Seven percent of the units (16) would be designated very-low-income and eight percent (18) would be low-income. The project would provide 275 surface vehicle parking spaces and 160 bicycle spaces in secure ground-level rooms within the building. The project would be located immediately adjacent to the Pinole Vista Shopping Center, which includes multiple amenities such as a supermarket, gym, and restaurants. This mix of uses allows for accessibility by foot and has a profound effect in terms of vehicle trip reduction (estimated at five percent), but is listed separately from the TDM Plan as it is an existing condition.

Transportation Demand Management (TDM) Plan

The following section describes the potential TDM measures suggested for the project based on best practices to reduce vehicle trip generation for residents and visitors.

Transit Pass Subsidy

Transit subsidies can act as strong incentives for residents to use transit for employment, shopping, or leisure trips. There is a bus stop roughly 200 feet from the project site that is served by two AC Transit and three WestCAT routes. To encourage transit use, the residential management association can provide residents with either a $40 monthly WestCAT fixed route pass or enroll the community in AC Transit's EasyPass program that provides discounted bus passes (prices calculated based on AC Transit formula). Implementation of a transit subsidy program would result in an estimated trip reduction of 2.4 percent.

Rideshare Program

Carpooling to transit stations, work locations and schools is one of the most common and cost-effective alternative modes of transportation and one which both employees and residents can adopt. There are numerous benefits to ridesharing. Carpooling can reduce peak-period vehicle trips and increase commuters' travel choices. Further, it reduces congestion, road and parking facility costs and pollution emissions. Carpooling tends to have the lowest cost per passenger-mile of any motorized mode of transportation as it makes use of a vehicle seat that would otherwise be empty. Carpooling also provides financial savings to consumers by decreasing fuel and parking costs.

The greatest barrier to carpooling is often simply being able to identify other travelers with the same travel route. The most effective approach is to create personalized trip planning information, regardless of mode, for residents. However, personalized trip planning is often expensive. An alternative is services that can assist in ride-matching that are less customized. The most basic publicly available service is 511.org's free carpool ride-matching service.

There are also various private ride-matching providers (e.g. Carma, Zimride, RideAmigos, Via, Scoop) that can effectively create carpool networks while making them safe and convenient for their users.

Implementation of a rideshare program would result in an estimated trip reduction of 0.9 percent.

Education, Outreach & Marketing

The residential management association could designate a staff person to act as the Transportation Coordinator for this community. This person would implement and manage the TDM plan and programs. The Coordinator would provide customized transit information to the community's residents (i.e. nearest bus stops, bus and BART timetables, etc.). New residents would be provided with a welcome packet containing relevant transportation information. The packet could include walking and biking maps of the area, suggested walking routes to nearby transit facilities, information on local and regional transit providers, and information on the residential organization's ride-matching services. It is beneficial to provide a central information center customized for this community even though a resident may also locate this information on their own through various online sources. The coordinator's duties can include:

- Create and distribute resident transportation information welcome packets.
- Maintain and update a virtual bulletin board of transportation information.
- Distribute Contra Costa biking and walking maps and other information.
- Promote and maintain the rideshare program.
- Provide information on transit passes.

Implementation of an education, outreach, and marketing program would result in an estimated trip reduction of 2.3 percent.

Bikeshare Program

Bikeshare programs provide users with shared bicycles that can be used for short periods of time. Providing shared bicycles in a secure area within the development gives residents the opportunity to reach destinations without a car that are outside a typical walking distance while forgoing the expense of owning, maintaining, and storing a bicycle. Implementation of an onsite bikeshare program would result in an estimated trip reduction of 0.1 percent.

Vehicle Trip Reduction Analysis

The vehicle trip generation of the project is influenced by the TDM program outlined above. The publication *Quantifying Greenhouse Gas Mitigation Measures*, California Air Pollution Control Officers Association (CAPCOA), 2010, includes a methodology to determine the vehicle trip reductions associated with TDM measures. CAPCOA contains multiple citations referencing original research. For the proposed project, there is a potential 5.6-percent trip reduction based on the measures above (not including the impacts from the site's mix of uses). Table 1 details the reduction by measure.

DRAFT

Table 1 – Estimated Vehicle Trip Reduction

TDM Measure	Trip Reduction (%) Project Estimate
Transit Pass Subsidy	2.4%
Ridesharing Program	0.9%
Education, Outreach, and Marketing	2.3%
Bikeshare Program	0.1%
Total Potential Trip Reduction	**5.7%**
Dampened[1]	5.6%

Note: [1] Total reduction is dampened to 5.6% to reflect diminishing effectiveness of combined measures

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Brian Canepa, TDM-CP
Principal

Mark Spencer, PE
Senior Principal

MES/bac/PIN003.L4

DRAFT

Attachment E

Pinole Vista Apartments
1500 Fitzgerald Drive
Pinole, California

An Economic Impact Brief

July 13, 2022

Main Findings

A housing development in Pinole (1500 Fitzgerald Dr) is being proposed for the City of Pinole to consider. This report shows potential economic impacts to Pinole's economy as a result of these units being built and operated as a 223-unit, multifamily complex. Affordable units comprise 12 percent or 27 units of the total. Economic impacts are business revenues, supported jobs, and state and local tax revenues.

The economic impacts come in three ways:

- **Construction**: the 223 units have construction costs of approximately $75 million, which have impacts like any other construction work to build multifamily units;
    - This spending over two years supports an additional $112 million in business revenue, over 503 jobs and over $2.7 million in state and local taxes, some of which is ongoing (property tax) from on-site improvements and also other real-estate sales in Pinole.
    - Permit/City fees: $6.5 to $7 million.

- **Occupancy**: We assume the occupancy rate of these units is 94 percent, where the market-rate units (196 units) have households with $104,904 area median income (AMI) in 2020 (the latest data); the remaining 27 affordable units have 13 households with 50 percent of AMI at $52,452 and the other 14 households with 80 percent of AMI or $83,923.
    - These household incomes provide new spending in Pinole based on the 94 percent occupancy rate for an annual total spending of $22,133,590.
    - This spending supports 79 workers and over $1.2 million in state and local tax revenues.

- **Operations**: The approximately 5 workers on-site that are paid wages and salaries add to these impacts, given the estimated annual revenues from rents, of approximately $205 thousand, adding $19 thousand in state and local tax revenues. Maintenance would add $617 thousand in local revenues, 19 jobs, and $43 thousand in state and local tax revenues.

- **Benefits Relative to Kmart**: Spending by residents alone would add more than $6.5 million in net revenues to businesses, 33 jobs, and $463 thousand in state and local tax revenues, relative to the continuing operations of the Kmart.
    - Property tax revenues are significantly higher with the apartment complex than with the Kmart, resulting in approximately $86 thousand in additional revenues to the city of Pinole.
    - The additional sales tax revenues from the new resident spending and additional sales tax revenue are expected to more than compensate for the loss of sales tax revenues from the removal of the store.
        - Sales tax revenues from the Kmart had been in decline for several years prior to 2019. Overall revenues at the store declined by 45% from 2016 to 2019.
    - Combined sales and property taxes are estimated to increase by $80 thousand on an ongoing basis.

Introduction

This report examines the economic impacts of a proposed, 223-unit apartment complex at 1500 Fitzgerald Drive in Pinole, CA.[1] This study was commissioned by ROIC. The economic impacts come in two stages with three sources:

- Stage 1, Construction: the 223 units have a construction cost of approximate $75 million;
  - Approximately $55,000,000 in hard construction costs;
  - Approximately $20,000,000 in soft construction costs (including permitting and design).

- Stage 2, Operations:
  - The 223 units are estimated to have approximately 598 residents if 100-percent occupied; based on the current people per household in Pinole of 2.68 (2020 estimates from US Census Bureau) for all city households that do not own their residence;
    - 27 of the units (12 percent) are meant to be deemed affordable units; 196 units would be at the market rate;
    - We assume here that there would be 508 residents on average (approximately 94 percent occupancy on average);
    - All residents of these units would be considered new households to Pinole given the low vacancy rates of approximately 2.7% in Pinole for all rental housing units in the City as of 2019;
    - 6 percent of the units are for residents with household income of 50 percent of area median income (AMI), and 6 percent are for residents with household income of 80 percent of AMI; and
  - There are also workers supported by the rents earned at the complex that are employed by the complex.

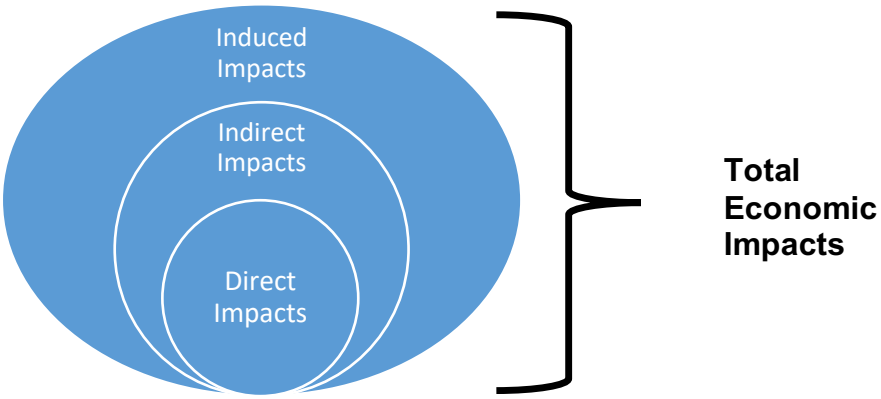
Residential spending is a key driver in the economic impacts from this development once the apartments are rented. The market-rate units are assumed to have household incomes equal to the median household income in Pinole for 2020 of $104,904 to remain conservative in these estimates; the affordable or below market-rate units would have household incomes of a mix of 50 percent and 80 percent of that median level (50 percent is $52,452 and 80 percent is $83,923). These income levels drive the household spending effects shown below.

Basic Ideas

The broader effects of building and operating this 223-unit complex on Pinole's economy include supported jobs, annual business revenues and new tax receipts. Figure 1 shows the multiplier effect of these rounds of new spending in theory. Economic impacts come in three "flavors" starting with the same way ripples come from throwing a rock into a still pond; the rock is the construction and operations of these new rental units, rippling out into the broader economy as **direct** effects. **Indirect** effects come from vendor relationships and generate broader spending. For example, the purchase of gardening and landscaping services for the complex's grounds provide demand to local businesses not there previously without these new units.

[1] Please see https://www.ci.pinole.ca.us/city_government/planning/current_projects/pinolevista for more information on the proposed complex.

Figure 1: Economic Impacts



This indirect spending fuels **induced** effects, including the gardening company's employees spending their wages on groceries, medical visits, restaurant meals, and various other industries that have little to no connection at all with the apartment's construction or operations. The important, ongoing aspect of the economic impacts are the apartments' new residents spending. Their income adds more **induced** spending to broaden the economic impacts.[2]

Estimated Economic Impacts: Construction Spending

The 223 apartment units have an estimated construction cost of approximately $75 million. This cost includes hard costs of construction (labor and materials) and other costs that support construction efforts (design, management). A proforma financial estimate of these costs was provided to MEC; hard costs are approximately $55,000,000, with the remainder as soft costs and additional contingency costs (approximately $20,000,000). Construction would take approximately 24 months to build, with approximately 291 workers doing the work. Additionally, permitting and City fees will likely amount to $6.5-$7 million.

Assuming these total construction costs are correct, land improvements and thus a larger assessed property value exists after construction versus the current valuation; there are net property tax gains for the City of Pinole as a result. Other fees and taxes are paid directly and indirectly because of construction spending. The IMPLAN® model estimates the full-time equivalent workers that would be on site for construction and also the taxes and business revenues supported by this construction spending. Figures 2 through 4 below provide the broader economic effects.

[2] A glossary in the Appendix provides more explanations of some of the major industries affected below.

Figure 2: Business Revenue Effects Annually, Construction, 2020 Dollars

Industry	Direct	Induced	Indirect	Total
Construction	55,000,000	0	0	55,000,000
Design and Management	20,000,000	34,203	1,374,492	21,408,695
Building material and garden equipment and supplies stores	0	82,782	4,153,819	4,236,601
Owner-occupied dwellings	0	3,044,146	0	3,044,146
Other real estate	0	589,915	2,235,273	2,825,188
Employment services	0	155,960	1,396,973	1,552,933
Management of companies and enterprises	0	208,232	1,137,876	1,346,108
Misc. financial investment activities	0	607,987	724,332	1,332,319
Merchant wholesalers - construction	0	69,098	781,959	851,057
Petroleum refineries	0	112,899	661,679	774,578
Truck transportation	0	118,555	637,338	755,893
Insurance carriers, except direct life	0	462,356	244,534	706,890
Hospitals	0	679,339	0	679,339
Management consulting services	0	70,002	550,259	620,261
Ready-mix concrete manufacturing	0	2,524	610,954	613,478
All Others	0	9,102,432	8,991,130	18,093,562
Totals	**75,000,000**	**15,340,430**	**23,500,618**	113,841,048

Figure 3: Employment Impacts, Construction, Full-Time Equivalents Supported

Industry	Direct	Induced	Indirect	Total
Construction	172	0	0	172
Design and Management	119	0	8	128
Building material and garden equipment and supplies stores	0	1	29	30
Employment services	0	1	12	14
Other real estate	0	3	10	13
Full-service restaurants	0	3	1	5
Truck transportation	0	1	4	5
Management of companies and enterprises	0	1	4	5
Landscape and horticultural services	0	1	4	5
Limited-service restaurants	0	4	1	5
Individual and family services	0	5	0	5
Transit and ground passenger transportation	0	2	2	4
Management consulting services	0	0	4	4
Office administrative services	0	0	4	4
Couriers and messengers	0	1	3	4
All Others	0	59	38	100
Totals	**291**	**82**	**124**	**503**

Figure 4: State and Local Tax Receipts from Construction, 2022 Dollars

Tax category	Hard Const	Soft Const	Total Const
Employment Taxes	125,564	88,602	214,166
Sales Taxes	432,381	32,617	464,998
Property Taxes	614,562	46,359	660,921
Personal Income	620,605	431,916	1,052,521
Other Taxes and Fees	327,409	27,302	354,711
Total State and Local taxes	2,120,521	626,796	2,747,317

Economic Impacts: Spending Profiles Comparison of New Households

There are an estimated 508 residents assuming a fifteen-percent (15%) vacancy rate and using recent estimates by the U.S. Census Bureau on residents per housing unit; there would be an estimated 190 new households (163 market-rate units and 27 below market-rate units occupied) in Pinole created once occupancy increased and stabilized.[3] The key parameter for the household spending profiles is estimated annual income levels. Given the residents are to be occupying 12-percent affordable housing units, with the rest market-rate rentals, we assume those households in affordable units have a household income equal to 50 percent and 80 percent of the current median household income estimated for the city of Pinole (13 and 14 units at each level, respectively).

The American Community Survey (ACS) provides data on the median income levels in the city of Pinole as of 2020 (see http://data.census.gov for more information, where 2020 is the year for the latest data). We use $104,904 for annual, median household income as the income measure for the occupied market-rate units; while this may be low for some households in market-rate units, the estimates remain conservative through this assumption. These conservative estimates can be summarized as follows:

- For the occupied, market-rate units, median household income is assumed as $104,904, becoming approximately **$20,276,789** of annual income from the market-rate units; and

- For the occupied, affordable units, the median income in Marin County is $52,452 for those units with households earning 50 percent of AMI and $83,923 for those households earning 80 percent of AMI, becoming approximately **$1,856,801** annually from the affordable units;

- **The sum is $22,133,590** annually starting in the first year of apartments being occupied.

Using the IMPLAN® model, these income profiles have a typical spending pattern in Contra Costa County.[4] The annual income levels do not include incomes that may come from wealth, insurance, retirement, and other income sources. Figures 5 through 7 compare the spending and jobs supported by these income levels. Notice the spending level is not equal to income level due to the exclusion of income taxes and savings from the gross income levels to become “disposable” income for spending locally. There is also leakage from the local markets, and the IMPLAN model takes such leakages into account.

[3] The affordable units are assumed to have 100% occupancy. A total 94% occupancy implies an 93% occupancy rate for the market rate apartments.

[4] The county is the smallest geographical area of IMPLAN available.

Figure 5: Business Revenue Effects Annually, 2022 Dollars

Industry	Market Rate	Affordable	Total
Hospitals	755,925	69,222	825,147
Tenant-occupied housing	658,981	60,345	719,325
Misc. financial investment activities	598,003	54,761	652,764
Other real estate	556,514	50,961	607,475
Insurance carriers, except direct life	451,064	41,305	492,370
Offices of physicians	423,218	38,755	461,973
Limited-service restaurants	379,778	34,777	414,555
Insurance agencies, brokerages, and related activities	287,908	26,364	314,272
Retail - Food and beverage stores	264,502	24,221	288,723
Other local government enterprises	257,766	23,604	281,370
Individual and family services	238,026	21,797	259,823
Wired telecommunications carriers	233,016	21,338	254,354
Outpatient care centers	207,658	19,016	226,674
Nondepository credit intermediation and related activities	200,192	18,332	218,524
All Others	6,403,709	586,405	6,990,114
Totals	**11,916,260**	**1,091,203**	**13,007,463**

Comparing the economic impacts from construction and resident spending once the units are occupied, two differences are apparent. First, household spending only has an "induced" impact, as there are no ripple effects otherwise. Household spending is not employment or investment; the only effects are spending and what that spending supports in the local economy. This analysis assumes that all new residents come from outside Pinole (i.e., the spending is new spending for Pinole).

Figure 6: Employment Impacts, Full-Time Equivalents Supported

Industry	Market Rate	Affordable	Total
Individual and family services	6	1	7
Limited-service restaurants	4	0	4
Hospitals	3	0	3
Full-service restaurants	3	0	3
Retail - Food and beverage stores	3	0	3
Other real estate	3	0	3
Offices of physicians	3	0	3
Nursing and community care facilities	2	0	2
Automotive repair and maintenance, except car washes	2	0	2
Retail - General merchandise stores	2	0	2
Transit and ground passenger transportation	2	0	2
Offices of dentists	2	0	2
Personal care services	1	0	2
Employment services	1	0	1
All other food and drinking places	1	0	1
All Others	43	4	47
Totals	**79**	**7**	**86**

Figure 7: State and Local Tax Receipts Annually, 2020 Dollars

Tax Category	Market-Rate	Affordable	Total
Employment Taxes	22,288	2,041	24,329
Sales Taxes	341,503	31,272	372,775
Property Taxes	485,393	44,449	529,842
Personal Income	129,470	11,856	141,326
Other Taxes and Fees	124,620	11,412	136,032
Total State and Local Taxes	**1,103,274**	**101,030**	**1,204,304**

Those that live in the new units may not be the only people that come to Pinole and spend money. Visitors to these apartments are likely coming on a daily basis and spending money is part of such travel. Hotel stays may also be increased. Because there is not a basis in the data or literature to compare visitor spending to residential spending or the growth of multifamily units, this study does not estimate that amount specifically. The vacancy estimates are critical to these household spending estimates; if vacancy rates remain low in Marin County and at this complex, the economic impacts above are likely fully realized.

Economic Impacts: Apartment Operations

As any other business and multifamily apartment complex, there are economic impacts from the daily operations of the apartments as rentals. This includes workers hired by the landlord, where indirect spending is on vendor contracts and also how these employees of the apartment complex spend their wages and salaries. IMPLAN® estimates the economic impacts on additional business revenues, jobs supported and state and local taxes as summarized in Figures 8 to 12. The annual income from these units is approximately $6,316,684 once occupied at 94 percent. Maintenance expenditures are estimated to be approximately $2 million, with wages paid to direct employees of approximately $350,000.

Figure 8: Business Revenue Effects Annually, Apartment Employees, 2020 Dollars

Industry	Total
Hospitals	13,048
Tenant-occupied housing	11,375
Misc. financial investment activities	10,322
Other real estate	9,606
Insurance carriers, except direct life	7,786
Offices of physicians	7,305
Limited-service restaurants	6,555
Insurance agencies, brokerages, and related activities	4,970
Retail - Food and beverage stores	4,566
Other local government enterprises	4,449
Individual and family services	4,109
Wired telecommunications carriers	4,022
Outpatient care centers	3,584
Nondepository credit intermediation and related activities	3,455
All Others	110,533
Totals	**205,684**

Figure 9: State and Local Tax Receipts Annually, Apartment Employees, 2020 Dollars

Tax Category	Amount
Employment Taxes	385
Sales Taxes	5,895
Property Taxes - Residential	8,378
Personal Income	2,235
Other Taxes and Fees	2,151
Total State and Local taxes	19,043

Figure 10: Business Revenue Effects Annually, Apartment Maintenance, 2020 Dollars

Industry	Indirect	Induced	Total
Maintenance and repair construction of residential structures	105,011	2,620	107,631
Rental Income for Property Owners	-	66,968	66,968
Pawn and Check Cashing	56,907	2,515	59,422
Other real estate	41,501	12,471	53,973
Banks and Credit Unions	17,921	5,450	23,371
Other financial investment activities	9,956	9,327	19,283
Full-service restaurants	2,306	11,319	13,624
Offices of physicians	0	10,480	10,480
Tenant-occupied housing	0	10,166	10,166
Building material and garden equipment and supplies stores	8,384	1,467	9,851
Limited-service restaurants	314	8,070	8,384
Hospitals	0	8,174	8,174
Legal services	3,878	3,668	7,546
Insurance agencies, brokerages, and related activities	4,821	2,306	7,126
All Others	55,335	155,525	210,860
Totals	306,334	310,526	616,860

Figure 11: Employment Impacts, Apartment Maintenance, Full-Time Equivalents Supported

Industry	Direct	Indirect	Induced	Total
Tenant-occupied housing	16	0	0	16
Maintenance and repair construction of residential structures	0	0	0	0
Pawn and Check Cashing	0	0	0	0
Other real estate	0	0	0	0
Full-service restaurants	0	0	0	0
Misc. financial investment activities	0	0	0	0
Individual and family services	0	0	0	0
Limited-service restaurants	0	0	0	0
Services to buildings	0	0	0	0
Building material and garden equipment and supplies stores	0	0	0	0
Food and beverage stores	0	0	0	0
Misc. food and drinking places	0	0	0	0
Banks and Credit Unions	0	0	0	0
Offices of physicians	0	0	0	0
All Others	0	0	1	2
Totals	16	1	2	19

Figure 12: State and Local Tax Receipts Annually, Apartment Maintenance, 2020 Dollars

Tax Category	Amount
Employment Taxes	105
Sales Taxes	26,934
Property Taxes - Residential	105
Personal Income	3,249
Other Taxes and Fees	12,471
Total State and Local taxes	42,864

COVID-19 may have effects on these estimates based on how the Pinole city economy changes as a result (retail mix, number of employed residents, etc.). Depending on when construction begins on these units, the overall estimates may be affected. With continued, low vacancy rates in rental and a declared recession in 2020, funded developments such as this create jobs and provide support for Pinole's downtown merchants given the housing units' location at a time where the future of similar developments may be few and far between.

Economic Impacts: Existing Retail

It is worth contemplating the alternative to the apartment building of continuing operations at the Kmart in Pinole Vista Plaza, the building that would be removed during construction of the apartments. In 2016, revenues at the Kmart were just under $8 million. By 2019, revenues had consistently declined to just $4.3 million. The Kmart is no longer believed to be a viable enterprise at that location. Nevertheless, in Figures 13-15, we consider the business revenue, employment, and tax implications of continued functioning of the Kmart at its 2019 level. Note that this is likely a very generous assessment of the local economic benefits of the store. A more likely scenario is continued declines in revenue.

Figure 13: Business Revenue Effects Annually, A Retail Alternative, 2020 Dollars

Industry	Direct	Induced	Indirect	Total
Retail - General merchandise stores	4,348,034	11,902	255	4,360,192
Management of companies and enterprises	0	13,015	370,017	383,033
Other real estate	0	36,826	223,513	260,339
Owner-occupied dwellings	0	188,312	0	188,312
Misc. financial investment activities	0	38,316	53,780	92,096
Cable and other subscription programming	0	6,376	43,529	49,905
Insurance carriers, except direct life	0	29,013	16,251	45,263
Warehousing and storage	0	782	43,054	43,836
Hospitals	0	43,207	0	43,207
Insurance agencies, brokerages, and related activities	0	19,359	17,254	36,613
Employment services	0	9,771	20,858	30,629
Truck transportation	0	7,396	22,071	29,467
Tenant-occupied housing	0	29,433	0	29,433
Services to buildings	0	3,800	24,365	28,165
Legal services	0	9,677	18,391	28,068
All Others	0	511,843	352,890	864,733
Totals	**4,348,034**	**959,028**	**1,206,229**	**6,513,291**

Figure 14: Employment Impacts, A Retail Alternative, Full-Time Equivalents Supported

Industry	Direct	Induced	Indirect	Total
Retail - General merchandise stores	45	0	0	45
Management of companies and enterprises	0	0	1	1
Other real estate	0	0	1	1
Couriers and messengers	0	0	0	0
Warehousing and storage	0	0	0	0
Employment services	0	0	0	0
All other food and drinking places	0	0	0	0
Services to buildings	0	0	0	0
Limited-service restaurants	0	0	0	0
Individual and family services	0	0	0	0
Misc. financial investment activities	0	0	0	0
Offices of physicians	0	0	0	0
Retail - Food and beverage stores	0	0	0	0
Truck transportation	0	0	0	0
Legal services	0	0	0	0
All Others	0	2	1	3
Totals	**45**	**4**	**5**	**53**

Figure 15: State and Local Tax Receipts from a Retail Alternative, 2022 Dollars

Tax category	Total
Employment Taxes	14,184
Sales Taxes	445,546
Property Taxes	80,403
Personal Income	68,218
Other Taxes and Fees	133,174
Total State and Local Taxes	**741,525**

A head-to-head comparison between the economic benefits of the optimistic scenario with regard to Kmart and just the economic benefits of the spending of residents alone provides a compelling economic case for the apartment complex. Spending by residents alone adds nearly $6.5 million in net revenues to businesses, 33 jobs, and $463 thousand in state and local tax revenues. Construction and apartment operations further increase the net improvement in economic benefits. The built apartment complex with an estimated value of $55 million, will increase property taxes associated with the site by nearly $470 thousand. This is a net increase in revenue to Pinole of approximately $85 thousand on an annual basis.

Figure 16: Comparison of Economic Benefits

Category	Kmart[1]	Resident Spending and Operations[2]		Net Improvement	Potential Net Gain to Pinole
Revenues	6,513,291	13,829,827		7,316,536	7,316,536
Employment	53	86		33	33
S&L Taxes	741,525	1,204,304		462,779	80,210
Property Taxes	80,403	550,000[3]		469,597	84,527
Retail Sales Taxes	445,546	405,614		-39,932	-4,317

[1] Tables 14-16

[2] Tables 5-12

[3] Based on an estimated value of the built property of $55 million.

References and Glossary

Data on construction and operations of the 180 units was provided by Seagull Prime Real Estate Fund, LLC.

Data on people per household is from the California Department of Finance's estimates on housing and population as of January 1, 2019 (the latest data available as of January 2020). For the data, see DOF. The following definitions pertain to line items referenced here. Many of these definitions come from the US Bureau of Labor Statistics. Please see www.bls.gov for further details.

- **All other food and drinking places:** All additional restaurants not captured in limited- or full-service restaurants, including food trucks.
- **Full-service restaurants**: Establishments primarily engaged in providing food service to patrons who order and are served while seated, and pay after eating. These establishments may sell alcoholic beverages, provide take-out services, operate a bar or present live entertainment, in addition to serving food and beverages.
- **Individual and family services:** Establishments primarily engaged in providing one or more of a wide variety of individual and family social, counseling, welfare, or referral services, including refugee, disaster, and temporary relief services. This industry includes offices of specialists providing counseling, referral, and other social services.
- **Insurance carriers:** insurance agents and other insurance-related businesses.
- **Limited–service restaurants:** any establishments whose patrons generally order or select items and pay before eating. Food and drink may be consumed on premises, taken out, or delivered to customers' locations.
- **Management consulting services**: businesses hired as consultants to help with company operations, decisions, and other aspects of running a business.
- **Management of companies and enterprises:** This sector comprises establishments primarily engaged in managing companies and enterprises and/or holding the securities or financial assets of companies and enterprises, for the purpose of owning a controlling interest in them and/or influencing their management decisions.
- **Medical offices:** health care outside hospitals, based on outpatient general care outside of rehabilitation or skilled nursing and residential health facilities.
- **Owner-Occupied Dwellings:** The income made by owners of homes they occupy, through rent payments or other savings due to home ownership.
- **Other financial investment activities:** This industry comprises establishments, not classified to any other industry, primarily engaged in providing, on a contract or fee basis, miscellaneous financial investment services, such as trust, fiduciary and custody services, and other investment services.
- **Retail – Internet Retailers;** These retail businesses do not have a storefront, but are locally headquartered and sell their goods and services through the internet or catalogs.
- **Wholesale Trade:** Businesses that connect goods producers to retailers, classic distribution and wholesale businesses, including Costco.

MEMORANDUM			
TO:	Lilly Whalen Community Development Director City of Pinole	**DATE:**	July 22, 2022
FROM:	Roger Dale Managing Principal The Natelson Dale Group, Inc. (TNDG)	**FILE:**	#4167
SUBJECT:	**Fiscal Impact Analysis (FIA) – Proposed Pinole Vista Residential Project**		

Introduction

This memorandum summarizes a fiscal impact analysis (FIA) completed by The Natelson Dale Group, Inc. (TNDG) for the proposed Pinole Vista residential development project. In particular, the analysis focuses on annually recurring revenue and cost impacts to the City's General Fund. Consistent with the City's request, TNDG's analysis compares the fiscal impacts for the proposed project to the impacts that would result if existing structure on the project site (a vacant Kmart building) were re-tenanted with retail commercial uses.

Description of Proposed Project

The project applicant proposes to redevelop of a portion of the existing Pinole Vista shopping center. The project would involve demolition of the vacant Kmart building at 1500 Fitzgerald Drive and redevelopment of the site with 223 rental apartment units. The breakdown of the apartments by affordability level would be as follows:

- 196 market-rate units
- 14 units affordable to households with 80 percent of Area Median Income (AMI)
- 13 units affordable to households with 50 percent of AMI

As a point of comparison, the FIA also calculates the fiscal impacts which would result under a hypothetical scenario in which the existing Kmart building would be re-tenanted with 70,000 square feet of commercial uses. For purposes of the FIA, the assumed tenant mix for the commercial scenario would be as follows:

- 10,000 square feet of restaurant/fast food space
- 30,000 square feet of other retail space
- 30,000 square feet of services space

Key Economic Issues Evaluated in this Report

Given that the proposed residential project would reduce the retail footprint of the overall Pinole Vista shopping center, the City of Pinole is concerned about the potential fiscal impacts of the proposed project (especially the potential loss of sales tax revenue associated with retail

commercial development). As such, ***a primary purpose of this report is to compare the fiscal impacts of the proposed residential project to the fiscal impacts that would result if the site (i.e., the vacant Kmart building) were re-tenanted with retail uses.***

An accurate analysis of fiscal impacts requires careful ***consideration of the market feasibility of the assumed land uses for each development scenario***. Most significantly, the "baseline" projection of sales tax potential for retail reuse of the site's existing commercial building needs to reflect a realistic understanding of the site's actual opportunities (or lack of opportunities) for future retail commercial development. This point is particularly important for decisionmakers in that any discussion of foregone sales tax revenues is valid only if it is likely that, in the absence of the proposed rezoning, the site would be re-occupied with commercial uses in the foreseeable future. To the extent that demand for future commercial development on the site is limited, concerns about "lost" fiscal revenues would be less valid.

To ensure "market realistic" land use assumptions for the retail re-tenanting scenario, the FIA draws on the findings of a market study[1] completed by TNDG as part of the preparation of the City's Economic Development Strategy. TNDG's market demand analysis is not intended to provide a full-blown market feasibility study (such as a developer or investor would require) but provides a basis for the market assumptions necessary for the FIA commercial scenario and to "frame" the overall decision-making process from the City's perspective.

Executive Summary

This section of the memorandum provides an abbreviated summary of the fiscal impact analysis. The detailed fiscal impact calculations are provided in Appendix A (proposed residential project) and Appendix B (retail re-tenanting scenario).

A. Annually Recurring Impacts to City's General Fund

Table 1 below provides a summary of projected General Fund revenues and expenditures associated with the two development scenarios considered in this report. As shown on the table, development of the subject site with the proposed residential project would generate a slightly negative fiscal impact to the City's General Fund of approximately $2,500 per year. Theoretically, re-tenanting of the existing building with retail uses would generate a significant General Fund surplus to the City of approximately $313,000 per year. As a practical matter, however, market demand for retail reuse of the site is uncertain and could take 10 years or longer to be realized (see additional discussion below).

[1] See separate memorandum ("Pinole Economic Development Strategy – Summary of Real Estate Demand Projections") dated July 18, 2022.

Table 1

Summary of Annual Impacts to General Fund

Retail Re-Tenanting Scenario compared to Proposed Residential Project

City of Pinole

General Fund Revenue/Cost Categories	Retail Re-Tenanting Scenario	Proposed Residential Project	Difference
Revenues			
Property Tax	$28,939	$137,806	$108,866
Property Tax in lieu of VLF	11,178	53,229	42,051
Real Property Documentary Transfer Tax	866	4,125	3,259
State Sales Tax	149,625	35,371	(114,254)
Measure S Sales Tax	149,625	35,371	(114,254)
Utility Franchise Tax	2,350	17,595	15,244
Business License Tax	6,685	0	(6,685)
Utility Users Tax	3,343	25,021	21,679
Fines and Forfeitures	67	498	431
Total Revenues	*$352,678*	*$309,015*	*($43,663)*
Expenditures			
Police Department	$18,685	$139,868	$121,184
Fire Department	11,845	88,668	76,823
Community Development	824	6,170	5,346
Public Works	6,422	48,071	41,649
Community Services	0	11,654	11,654
General Government (1)	2,191	17,077	14,886
Total Expenditures	*$39,967*	*$311,509*	*$271,542*
Net General Fund Fiscal Impact	*$312,711*	*($2,494)*	*($315,205)*

1. Includes City Council, City Manager, City Clerk, City Treasurer, City Attorney, Finance and Human Resources.

Source: TNDG.

B. Feasibility of Retail Re-Tenanting of Existing Kmart Building

As part of the firm's work on the City of Pinole's Economic Development Strategy, TNDG completed a long-range market demand study for retail, office and industrial land uses. Table 2 on the next page provides an abbreviated summary of the retail demand projections. TNDG's market study forecasts incremental demand for new retail space citywide based on anticipated population growth in Pinole and the surrounding retail trade area (which is assumed to include the neighboring cities of Hercules, San Pablo and Richmond). The study considers a conservative scenario in which Pinole's capture rates of local and regional demand are expected to remain at existing levels, and a more aggressive scenario in which Pinole's capture rates are projected to increase slightly.

Under the conservative demand projections, Pinole could potentially absorb up to 188,000 square feet of new retail space by 2040; under the more aggressive scenario, absorption by 2040 could reach 318,000 square feet. After adjusting these projections to account for the demand that would be absorbed with the proposed expansion of the Pinole Square (Safeway) shopping center[2], the remaining demand available in 2040 to support other retail projects in Pinole would be approximately 142,000 square feet under the conservative scenario and approximately 272,000 square feet under the aggressive scenario.

In addition to forecasting demand for the 2040 horizon year, TNDG's market study also projects demand for the following interim years (as shown on Table 2): 2025, 2027, 2030 and 2035. Based on these projections, net available demand would not exceed 70,000 square feet (the amount assumed to be needed to support viable reuse of the vacant Kmart building) until sometime between 2030 and 2035. Thus, even under the unrealistic assumption that Pinole Vista would capture 100% of available demand during this time period, re-tenanting of the Kmart building with retail uses could take 10 to 12 years.

Under the more aggressive demand projections, retail reuse of the Kmart building could theoretically happen by 2025. However, TNDG considers the aggressive demand projections to be somewhat speculative; they are primarily provided for "aspirational" purposes in the context of the City's Economic Development Strategy, but do not necessarily represent the near-term feasibility of a specific development project.

[2] The proposed reconfiguration of Pinole Square would result in a net increase of approximately 46,000 square feet of retail and services space.

Table 2

Net Demand for Retail Space (CITYWIDE)

City of Pinole

Expressed in Square Feet

	2025	2027	2030	2035	2040
CONSERVATIVE SCENARIO					
Grocery Stores	16,713	18,780	22,187	29,424	38,416
Other Retail/Services	65,018	73,677	88,083	116,489	150,461
Total	81,731	92,456	110,269	145,913	188,876
Adjusted for new space absorbed by Pinole Square:					
Grocery Stores	334	2,401	5,808	13,045	22,037
Other Retail/Services	34,984	43,643	58,049	86,455	120,427
Total	35,318	46,043	63,856	99,500	142,463
AGGRESSIVE SCENARIO					
Grocery Stores	16,713	18,780	22,187	29,424	38,416
Other Retail/Services	130,290	151,218	180,710	230,824	280,323
Total	147,003	169,998	202,896	260,248	318,738
Adjusted for new space absorbed by Pinole Square:					
Grocery Stores	334	2,401	5,808	13,045	22,037
Other Retail/Services	100,256	121,184	150,676	200,790	250,289
Total	100,590	123,585	156,483	213,835	272,325

Source: TNDG.

One-time Development Fee Revenues

Table 3 below provides an estimate of the one-time impact fee revenue that would be generated by the proposed residential development project. The project would pay a total of approximately $2.3 million in development impact fees to the City of Pinole. Since the commercial reuse scenario would involve re-tenanting of an existing building it would not generate substantial development impact fees.

Table 3
Summary of Development Impact Fees
Pinole Vista Residential Project
City of Pinole

Development Impact Fee Category	Total Fee
Police	$194,104
Fire	248,045
Public Facilities & Equipment	334,719
Wastewater (1)	0
Transportation	65,680
Drainage	14,783
Growth Impact Total	$857,331
Parks & Recreation	1,353,844
Subtotal	*$2,211,175*
Administration @3%	66,335
Total	*$2,277,510*

(1) Wastewater impact fee is not collected by City;
project site is within West County Wastewater District.

Source: City of Pinole.

It should be noted that impact fees are generally designed to be cost recovery revenues (i.e., they are intended to directly offset the costs of providing infrastructure required to serve new development). As such, they do not represent a net "benefit" to the City (other than being a means of paying for needed infrastructure).

Appendix A

Fiscal Impact Calculations

PROPOSED RESIDENTIAL PROJECT

Table A-1
Summary of Annual Impacts to General Fund
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

General Fund Revenue/Cost Categories	Annual Amount
Revenues	
Property Tax	$137,806
Property Tax in lieu of VLF	53,229
Real Property Documentary Transfer Tax	4,125
State Sales Tax	35,371
Measure S Sales Tax	35,371
Utility Franchise Tax	17,595
Business License Tax	0
Utility Users Tax	25,021
Fines and Forfeitures	498
Total Revenues	*$309,015*
Expenditures	
Police Department	$139,868
Fire Department	88,668
Community Development	6,170
Public Works	48,071
Community Services	11,654
General Government (1)	17,077
Total Expenditures	*$311,509*
Net General Fund Fiscal Impact	*($2,494)*

1. Includes City Council, City Manager, City Clerk, City Treasurer, City Attorney, Finance and Human Resources. Center and Neighborhood Center.

Source: TNDG.

Table A-2
Fiscal Model Input Factors
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Project Component	Total Dwelling Units	Assessed Value per Unit	Occupancy Rate	Persons Per Household	Estimated Population	Assessed Value
Multi-family Apartments	223	$336,323 (1)	94%	2.50	524	$75,000,000

(1) Based on construction costs supplied by the applicant.

Source: TNDG.

Table A-3
General Fund Propery Tax Revenue
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Project Assessed Value at Buildout	$75,000,000
Total Property Tax @ 1.0% of Assessed Value	$750,000
City of Pinole General Fund Share	18.37%
Annual General Fund Revenue	***$137,806***

Source: Contra Costa County Auditor-Controller's Office; TNDG.

Table A-4
Projected Property Tax In Lieu of Vehicle License Fees (VLF)
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Citywide Property Tax In Lieu of VLF, FY 2020-21	$2,006,163
Pinole Assessed Valuation (AV), FY 2020-21	$2,826,702,511

Variable	
Incremental Assessed Value from Project[1]	$75,000,000
Percentage Increase over FY 2020-21 Base	2.7%
New Property Tax In Lieu of VLF	*$53,229*

Source: City of Pinole FY 2021-22 Adopted Budget; Contra Costa County Asessor's Office; TNDG.

Notes: 1. See Tables B-2 and B-3.

Table A-5
Estimate of Real Property Documentary Transfer Tax
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Total Assessed Value	$75,000,000
Average Investor Holding Period (years)	10
Average Annual Value Transfer	10.0%
Annualized Value of Property Transferred	$7,500,000
City Documentary Transfer Tax Rate	0.055%
Annual City Revenue	***$4,125***

Source: TNDG

Table A-6
Estimate of Off-Site Taxable Sales and City Sales Tax Revenue
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Calculation Factor	
Occupied Dwelling Units	
Market Rate	183
Affordable (80% AMI) units (1)	14
Affordable (50% AMI) units	13
Total	210
Assumed Household Income by Unit Type	
Market Rate	$104,904
Affordable (80% AMI) units	$83,923
Affordable (50% AMI) units	$52,452
Aggregate Resident Income	$21,054,230
% of Income Spent on Taxable Sales	24.0%
Annual Taxable Spending of Residents	$5,053,015
% Captured in City of Pinole	70%
Annual Taxable Sales	$3,537,111
Sales Tax Revenue @1% of Taxable Sales	**$35,371**
Measure S Revenue @1% of Taxable Sales	**$35,371**

(1) AMI = Area Median Income

Source: TNDG

Table A-7
Derivation of Revenue Projection Factors
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

City of Pinole Population (estimate for 12/31/2021)	19,200
City of Pinole, Employee Population (estimate for 12/31/2021)	8,000

Employee Weighting Factor	0.50
Effective Employee Population	4,000

Budget Category	Citywide GF Budget FY 2021/22	Allocation Basis[1]	Relevant Population	Per Capita Revenue
Franchise Tax	$779,000	R+E	23,200	$33.58
Business License Tax	382,000	E	8,000	47.75
Utillity Users Tax	1,915,000	R+E	23,200	82.54
Fines and Forfeitures	22,050	R+E	23,200	0.95

Sources: State of California, Department of Finance, E-5 Table; Association of Bay Area Governments; 2020 Census; City of Pinole, FY 2021-22 Adopted Budget; TNDG.

Notes: 1. Allocation basis: R - residents; E - employees; R+E - residents plus effective employee population.

GF = General Fund.

Table A-8
Projected General Fund Revenues
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Variable	Franchise Tax	Business License Tax	Utility Users Tax	Fines and Forfeitures
Allocation Basis	R+E	E	R+E	R+E
Residents	524	N/A	524	524
Onsite Employees	-	-	N/A	-
Weighting Factor	0.50	N/A	N/A	0.50
Population Equivalent	524	-	524	524
Per Capita Revenue	$33.58	$47.75	$47.75	$.95
Total Annual Revenue	*$17,595*	*$0*	*$25,021*	*$498*

Source: TNDG.

Table A-9
Derivation of Cost Projection Factors
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

City of Pinole Population (estimate for 12/31/2021)	19,200
City of Pinole, Employee Population (estimate for 12/31/2021)	8,000

Employee Weighting Factor	0.50
Effective Employee Population	4,000

Budget Category	Citywide GF Budget FY 2021/22	Less: Offsetting GF Revenues	Net General Fund Cost	Allocation Basis[1]	Relevant Population	Per Capita Costs
Police Department	$7,532,437	1,339,796	$6,192,641	R+E	23,200	$266.92
Fire Department	3,925,759	-	3,925,759	R+E	23,200	169.21
Community Development (2)	369,885	96,700	273,185	R+E	23,200	11.78
Public Works	2,128,337	-	2,128,337	R+E	23,200	91.74
Community Services	427,025	-	427,025	R	19,200	22.24

Sources: State of California, Department of Finance, E-5 Table; Association of Bay Area Governments; 2020 Census; City of Pinole, FY 2021-22 Adopted Budget; TNDG.

Notes: 1. Allocation basis: R - residents; R+E - residents plus effective employee population.
2. Includes Planning and Code Enforcement.

GF = General Fund.

Table A-10
Projected General Fund Costs
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

Variable	Police Department	Fire Department	Community Development	Public Works	Community Services
Allocation Basis	R+E	R+E	R+E	R+E	R
Residents	524	524	524	524	524
Onsite Employees	-	-	-	-	N/A
Weighting Factor	0.50	0.50	0.50	0.50	N/A
Population Equivalent	524	524	524	524	524
Per Capita Cost	$266.92	$169.21	$11.78	$91.74	$22.24
Total Annual Cost	*$139,868*	*$88,668*	*$6,170*	*$48,071*	*$11,654*

Source: TNDG.

Table A-11
Projected General Government Costs
Pinole Kmart Site - RESIDENTIAL DEVELOPMENT SCENARIO (PROPOSED "PINOLE VISTA" PROJECT)
City of Pinole

General Government Categories	2021-22 Annual Budget	
City Council	$176,609	
City Manager	562,708	
City Clerk	450,393	
City Treasurer	8,693	
City Attorney	310,200	
Finance	554,891	
Human Resources	493,626	
Total	$2,557,120	
All Fund Total	$46,947,982	
All Funds (non-Gen Gov't)	$44,390,862	
General Government Functions @	5.8%	of other City costs

Source: City of Pinole, FY 2021-22 Adopted Budget; TNDG.

Appendix B

Fiscal Impact Calculations

RETAIL RE-TENANTING SCENARIO

Table B-1

Summary of Annual Impacts to General Fund
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

General Fund Revenue/Cost Categories	Annual Amount
Revenues	
Property Tax	$28,939
Property Tax in lieu of VLF	11,178
Real Property Documentary Transfer Tax	866
State Sales Tax	149,625
Measure S Sales Tax	149,625
Utility Franchise Tax	2,350
Business License Tax	6,685
Utility Users Tax	3,343
Fines and Forfeitures	67
Total Revenues	*$352,678*
Expenditures	
Police Department	$18,685
Fire Department	11,845
Community Development	824
Public Works	6,422
Community Services	0
General Government (1)	2,191
Total Expenditures	*$39,967*
Net General Fund Fiscal Impact	*$312,711*

1. Includes City Council, City Manager, City Clerk, City Treasurer, City Attorney, Finance and Human Resources. Center and Neighborhood Center.

Source: TNDG.

Table B-2
Land Use Assumptions for Fiscal Impact Analysis
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Retail Tenant Types	Square Feet	Taxable Sales Per SF
Restaurant / Fast Food	10,000	$600
Grocery	-	$200
GAFO	30,000	$325
Services	30,000	$0
Total / Weighted Average	70,000	$225
Total / Weighted Average (retail only)	40,000	$394

Source: The Natelson Dale Group, Inc.

Table B-3
Fiscal Model Input Factors
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Project Component	Total Square Feet	Assessed Value per SF	Occupancy Rate	Square Feet Per Employee	Estimated Jobs	Taxable Sales Per SF
Retail Commercial Space	70,000	$350	95%	500	140	$225

Source: TNDG.

Table B-4
General Fund Propery Tax Revenue
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Project Assessed Value at Buildout	$15,750,000
Total Property Tax @ 1.0% of Assessed Value	$157,500
City of Pinole General Fund Share	18.37%
Annual General Fund Revenue	***$28,939***

Source: Contra Costa County Auditor-Controller's Office; TNDG.

Table B-5
Projected Property Tax In Lieu of Vehicle License Fees (VLF)
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Citywide Property Tax In Lieu of VLF, FY 2020-21	$2,006,163
Pinole Assessed Valuation (AV), FY 2020-21	$2,826,702,511

Variable	
Incremental Assessed Value from Project[1]	$15,750,000
Percentage Increase over FY 2020-21 Base	0.6%
New Property Tax In Lieu of VLF	*$11,178*

Source: City of Pinole FY 2021-22 Adopted Budget; Contra Costa County Asessor's Office; TNDG.

Notes: 1. See Tables B-3 and B-4.

Table B-6
Estimate of Real Property Documentary Transfer Tax
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Total Assessed Value	$15,750,000
Average Investor Holding Period (years)	10
Average Annual Value Transfer	10.0%
Annualized Value of Property Transferred	$1,575,000
City Documentary Transfer Tax Rate	0.055%
Annual City Revenue	***$866***

Source: TNDG

Table B-7
Estimate of On-Site Taxable Sales and City Sales Tax Revenue
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Calculation Factor	
Project Square Feet	70,000
Average Taxable Sales Per SF	$225
Occupancy Rate	95%
Annual Taxable Sales	$14,962,500
Sales Tax Revenue @1% of Taxable Sales	**$149,625**
Measure S Revenue @1% of Taxable Sales	**$149,625**

Source: TNDG

Table B-8
Derivation of Revenue Projection Factors
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

City of Pinole Population (estimate for 12/31/2021)	19,200
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Employee Weighting Factor	0.50
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Fines and Forfeitures	22,050	R+E	23,200	0.95

Sources: State of California, Department of Finance, E-5 Table; Association of Bay Area Governments; 2020 Census; City of Pinole, FY 2021-22 Adopted Budget; TNDG.

Notes: 1. Allocation basis: R - residents; E - employees; R+E - residents plus effective employee population.

GF = General Fund.

Table B-9
Projected General Fund Revenues
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Variable	Franchise Tax	Business License Tax	Utility Users Tax	Fines and Forfeitures
Allocation Basis	R+E	E	R+E	R+E
Residents	N/A	N/A	N/A	N/A
Onsite Employees	140	140	140	140
Weighting Factor	0.50	N/A	0.50	0.50
Population Equivalent	70	140	70	70
Per Capita Revenue	$33.58	$47.75	$47.75	$.95
Total Annual Revenue	*$2,350*	*$6,685*	*$3,343*	*$67*

Source: TNDG.

Table B-10
Derivation of Cost Projection Factors
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

City of Pinole Population (estimate for 12/31/2021)	19,200
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Sources: State of California, Department of Finance, E-5 Table; Association of Bay Area Governments; 2020 Census; City of Pinole, FY 2021-22 Adopted Budget; TNDG.

Notes: 1. Allocation basis: R - residents; R+E - residents plus effective employee population.
2. Includes Planning and Code Enforcement.

GF = General Fund.

Table B-11
Projected General Fund Costs
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

Variable	Police Department	Fire Department	Community Development	Public Works	Community Services
Allocation Basis	R+E	R+E	R+E	R+E	R
Residents	N/A	N/A	N/A	N/A	N/A
Onsite Employees	140	140	140	140	N/A
Weighting Factor	0.50	0.50	0.50	0.50	N/A
Population Equivalent	70	70	70	70	N/A
Per Capita Cost	$266.92	$169.21	$11.78	$91.74	$22.24
Total Annual Cost	*$18,685*	*$11,845*	*$824*	*$6,422*	*$0*

Source: TNDG.

Table B-12
Projected General Government Costs
Pinole Kmart Site - RETAIL RETENANTING SCENARIO
City of Pinole

General Government Categories	2021-22 Annual Budget	
City Council	$176,609	
City Manager	562,708	
City Clerk	450,393	
City Treasurer	8,693	
City Attorney	310,200	
Finance	554,891	
Human Resources	493,626	
Total	$2,557,120	
All Fund Total	$46,947,982	
All Funds (non-Gen Gov't)	$44,390,862	
General Government Functions @	5.8%	of other City costs

Source: City of Pinole, FY 2021-22 Adopted Budget; TNDG.