

**Fire Station #6
and Training Center**
Initial Study and Mitigated Negative
Declaration (IS/MND)

September 2018

**City of Hayward
Capital Improvement Project**

[This Page Left Intentionally Blank]



September 28, 2018

Alameda County Clerk
1106 Madison Street, 1st Floor
Oakland, CA 94607

SUBJECT: Notice of Public Hearing and Intent to Adopt A Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Expansion of the Existing Fire Station #6 and Fire Training Center Located at 1401 West Winton Avenue, APN: 432-0124-001-04 Site Plan Review Application No. 201703717

Please post this letter with the attached Initial Study and Mitigated Negative Declaration for a period of 20 days to conform to Section 15072 of the California Environmental Quality Act (CEQA) Guidelines. The specific posted comment period is from **Monday, October 1, 2018 to Monday, October 22, 2018 at 5:00 p.m.**

This item is scheduled for a public hearing before the Planning Commission of the City of Hayward on Thursday, October 25, 2018, at 7:00 p.m., Council Chambers, 2nd Floor, City Hall, 777 B Street, Hayward, to obtain citizen input on the proposed project and the Initial Study and Mitigated Negative Declaration (IS/MND). A copy of the staff report can be viewed on the City's website at www.hayward-ca.gov after October 19, 2018. The Planning Commission will be the decision-making body, unless otherwise appealed to or called-up by the City Council. The Planning Commission will review the project and adopt the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the development.

Copies of the Initial Study and Mitigated Negative Declaration are available for public review at Hayward City Hall at 777 B Street, Hayward on the First-Floor Permitting Center, Monday through Thursday from 8:00 a.m. to 5:00 p.m. Copies of the Mitigated Negative Declaration are also available for public review at the Hayward Public Library located at 835 C Street and the Weekes Branch Library located at 27300 Patrick Avenue, both in Hayward, and on the City's website at <http://www.hayward-ca.gov/content/projects-under-environmental-review-0>. Please see the Library and Community Services webpage at <http://www.library.ci.hayward.ca.us/> for library days and hours.

Development Services Department

Planning Division

777 B Street, Hayward, CA 94541

T: 510.583.4200

F: 510.583.3649

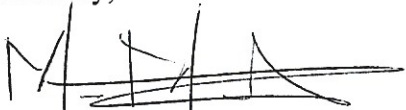
TTD: 510.247.3340

www.hayward-ca.gov



If the Mitigated Negative Declaration is approved, the City will promptly file a Notice of Determination (NOD) for the project with the Alameda County Clerk's Office. If you have any questions, please contact Marcus Martinez, Assistant Planner at (510) 583-4236 or via e-mail at marcus.martinez@hayward-ca.gov.

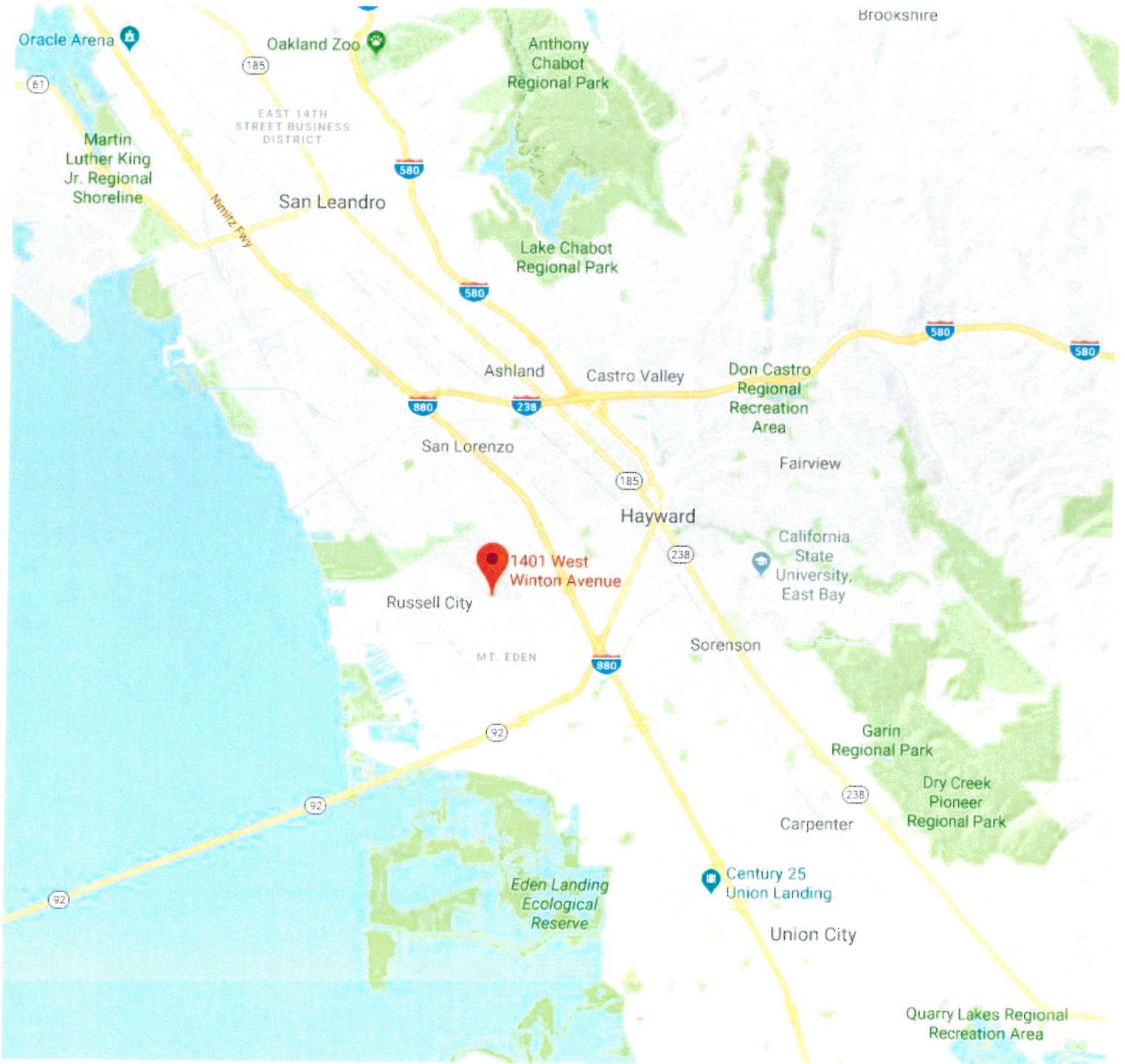
Sincerely,

A handwritten signature in black ink, appearing to read 'M. Martinez', with several horizontal lines drawn through it.

Marcus Martinez
Assistant Planner

c: Dave Hung, Senior Civil Engineer – Public Works Department
File

FIGURE 1 – REGIONAL LOCATION AND PROJECT SITE



Development Services Department
Planning Division
777 B Street, Hayward, CA 94541

T: 510.583.4200
F: 510.583.3649

TTD: 510.247.3340
www.hayward-ca.gov



FIGURE 2 – PROJECT SITE



TABLE OF CONTENTS

List Of Abbreviations	7
Project Information	10
Project Description	11
Regional Map	13
Vicinity Map	14
Environmental Factors Potentially Affected.....	15
Determination:.....	16
Evaluation Of Environmental Impacts	17
Environmental Issues	18
1. Aesthetics.....	18
2. Agriculture And Forest Resources	21
3. Air Quality	23
4. Biological Resources.....	27
5. Cultural Resources.....	32
6. Geology And Soils.....	35
7. Greenhouse Gas Emissions	40
8. Hazards And Hazardous Materials	45
9. Hydrology And Water Quality.....	52
10. Land Use And Planning.....	58
11. Mineral Resources.....	61
12. Noise.....	62
13. Population And Housing.....	68
14. Public Services.....	70
15. Recreation	72
16. Transportation And Traffic.....	73
17. Tribal Cultural Resources	77
18. Utilities And Service Systems.....	79
19. Mandatory Findings Of Significance	84
Sources	86
List Of Appendices	86

LIST OF ABBREVIATIONS

ABAG	Association of Bay Area Governments
ACTC	Alameda County Transportation Commission
ALUCP	Airport Land Use Compatibility Plan
ARFF	Aircraft Rescue and Firefighting
AST	Aboveground storage tank
AT	Air Terminal
BAAQMD	Bay Area Air Quality Management District
BCDC	San Francisco Bay Conservation and Development Commission
BMPs	Best Management Practices
BTEX	benzene, toluene, ethylbenzene, and xylenes
Cal Fire	California Department of Forestry and Fire Protection
Cal/EPA	California Environmental Protection Agency
Cal/OSHA	California Occupational Safety and Health Administration
CalARP	California Accidental Release Prevention
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CERS	California Environments Reporting System
CGS	California Geological Survey
CH ₄	methane
City	City of Hayward
CMP	2011 Congestion Management Program
CNDDDB	California Natural Diversity Database
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	CO ₂ equivalents
CUPA	Certified Unified Program Agency
CWA	Federal Clean Water Act
DIR	California Department of Industrial Relations
DMA	Drainage Management Areas

DOSH	Division of Occupational Safety and Health
DOT	United States Department of Transportation
DTSC	Department of Toxic Substances Control
EBRPD	East Bay Regional Park District
EIR	Environmental Impact Report
ESLs	environmental screening levels
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
GHG	greenhouse gases
GWP	Global Warming Potential
HARD	Hayward Area Recreational District
HCM	Highway Capacity Manual
HFC	hydrofluorocarbons
HMC	Hayward Municipal Code
I-580	Interstate 580
I-880	Interstate 880
ITE	Institute of Transportation Engineers
LID	Low Impact Development
LOS	Level of Service
MBTA	Federal Migratory Bird Species Act
MRP	Municipal Regional Stormwater NPDES Permit
N ₂ O	nitrous oxide
NAHC	Native American Heritage Commission
NO ₂	nitrogen dioxide
NPDES	National Pollutant Discharge Elimination System
O ₃	ozone
OSHA	US Department of Labor, Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbons
Pb	lead
PCBs	polychlorinated biphenyls
PFC	perfluorocarbons
PG&E	Pacific Gas & Electric
PM ₁₀ /PM _{2.5}	particulate matter
RWQCB	San Francisco Bay Regional Water Quality Control Board

SDS	Safety Data Sheets
SF6	sulfur hexafluoride
SMP	Soil Management Plan
SO2	sulfur dioxide
SR-92	State Route 92
SWPPP	Storm Water Pollution Prevention Plan
TAC	toxic air contaminants
TMDL	total maximum daily loads
TPH/g	petroleum hydrocarbons/gasoline
USGS	United States Geological Survey
UST	Underground storage tank
WDRs	Waste Discharge Requirements

PROJECT INFORMATION

PROJECT TITLE: Hayward Fire Station No. 6 &
Regional ARFF Fire Training Center
Site Plan Review No. 201703717

LEAD AGENCY NAME/ADDRESS: City of Hayward
Planning Division
Development Services Department
777 B Street
Hayward CA 94541

CONTACT PERSON: Marcus Martinez, Assistant Planner
Development Services Department
City of Hayward
Phone: (510) 583-4236
Email: marcus.martinez@hayward-ca.gov

PROJECT LOCATION: Fire Station No. 6
1401 West Winton Avenue
Hayward CA, 94545
Assessor Parcel No. 432-0124-001-04

PROJECT SPONSER: Dave Hung, Senior Civil Engineer
Public Works Department
City of Hayward
777 B Street
Hayward CA 94541
Phone: (510) 583-4752
Email: dave.hung@hayward-ca.gov

ZONING DISTRICT: Air-Terminal Aviation Commercial (AT-AC)

GENERAL PLAN DESIGNATION: Public and Quasi-Public (PQP) and Industrial Corridor (IC)

PROJECT DESCRIPTION

The following section describes the proposed project that is evaluated in this Initial Study/Mitigated Negative Declaration (IS/MND). An overview of the project site is followed by the project description of the proposed development and a summary of the required and requested approvals and entitlements. The City of Hayward is the Lead Agency for the environmental review of this project.

Project Site

The project site is located at 1401 West Winton Avenue at the Hayward Executive Airport approximately situated a quarter-mile west of the intersection of West Winton Avenue and Hesperian Boulevard in the City of Hayward, County of Alameda. Regional vehicular access is most commonly provided via the West Winton Avenue on- and off-ramp from the Interstate-880 (Nimitz Freeway). The project site currently maintains access utilizing Saklan Road which provides direct access into the existing facility. This document provides the regional and local context of the project site with a regional map and a vicinity map.

Surrounding Land Uses and Setting

The 6.73-acre project site is located on the southwestern portion a 188.53-acre parcel of the Hayward Executive Airport owned by the City of Hayward. Adjacent land uses include predominantly Airport Terminal (AT) zoned uses toward the north, east, and west with Industrial, Light Manufacturing, and residentially zoned parcels to the south of the project site. Abutting structures to the north, east, and west of the project site are owned by the City of Hayward, whereas properties and structures to the south of the subject site are privately owned.

Site Characteristics and Current Site Conditions

The project site is generally flat and located on a small portion of the entire Hayward Executive Airport. The western portion of the 6.7-acre project site is currently occupied by the existing Fire Station #6, which consists of a single-story fire house building, a single-story classroom building, a multi-level burn building, and a training tower. The eastern portion of the project site is currently undeveloped and vacant, except for a paved circular concrete pad.

Proposed Project.

The proposed project includes an application for Site Plan Review (SPR) for the construction of the Hayward Fire Station No. 6 and Regional Airport Rescue and Firefighting (ARFF) and Fire Training Center. The proposed project will include the demolition of the four (4) existing structure approximately 18,000 square-foot of building area and the construction of nine (9) structures including the fire station/classroom building, apparatus building, hangar building, training tower, burn building, outdoor classroom, entry canopy, etc. The project includes the construction of approximately 66,278 square-feet of building area. Project plans are included as Appendix A.

The project will include the construction of Leadership in Energy and Environmental Design (LEED) Platinum structures. In addition to the development of the primary structure, the project will also include the associated on- and off-site improvements including site grading, utility connections, new landscaping and vegetation, installation of storm water management features and bio-retention areas, surface paving and parking areas, and deceleration lanes for secondary access along West Winton Avenue for emergency vehicles and patron parking.

The proposed project will primarily serve as an expansion of the existing fire station services and trainings to provide efficient and improved emergency services for the Hayward Executive Airport as needed. Anticipated operations of the Hayward Fire Station, Regional ARFF, and Fire Training Center will include the following services, classes, and operations:

- Fire station responding to an average of ten (10) emergency calls daily;
- Classroom/drill ground training for 12-14 City firefighters and 1-3 instructors daily;
- Classroom/drill ground training for 15-48 City firefighters and 1-3 instructors monthly;
- Fire training academy for 6-12 cadets with 1-12 instructors of 18 weeks yearly;
- Regional fire training and symposium yearly; and
- Chabot College EMT, fire technology, fire academy classes.

Requested Local Approvals:

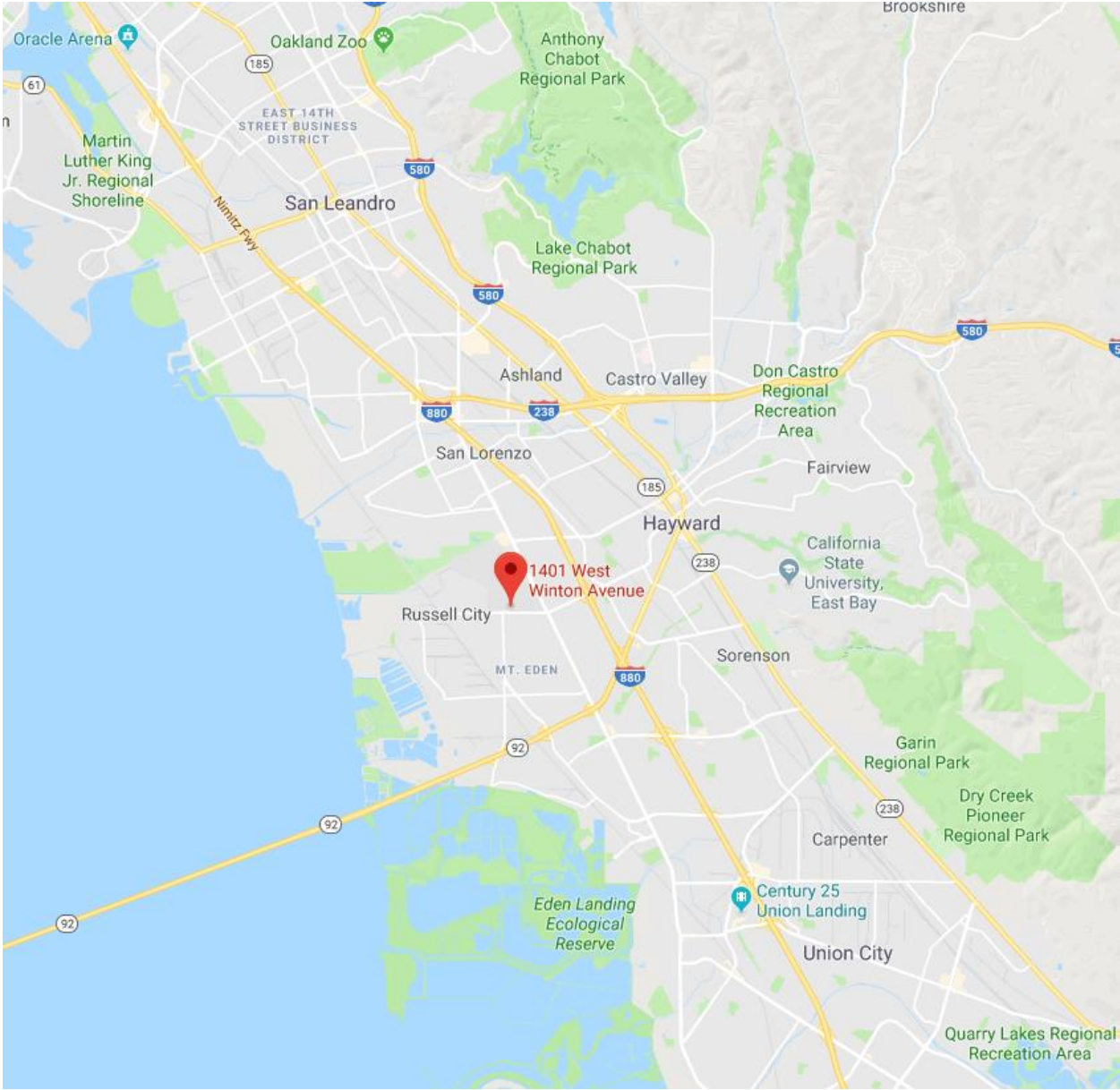
The City of Hayward, as the Lead Agency, will take the following actions to carry out the project upon completion of the environmental review:

- Site Plan Review
- Demolition Permit
- Grading Permit and Improvement Plans
- Building Permit

Other Public Agencies Whose Approval Is Required:

- San Francisco Bay Regional Water Quality Control Board (RWQCB)

REGIONAL MAP



Source: Google Maps (2018)

VICINITY MAP



ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

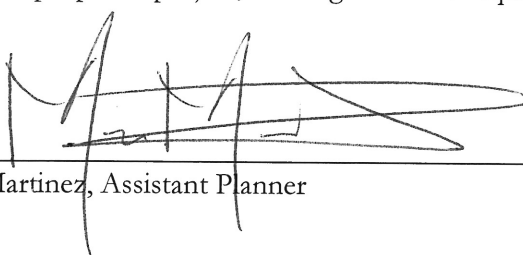
The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|--|---|--|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forestry Resources | <input type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input checked="" type="checkbox"/> Geology /Soils |
| <input type="checkbox"/> Greenhouse Gas Emissions | <input checked="" type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology / Water Quality |
| <input type="checkbox"/> Land Use / Planning | <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Population / Housing | <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Transportation/Traffic | <input type="checkbox"/> Utilities / Service Systems | <input checked="" type="checkbox"/> Mandatory Findings of Significance |

DETERMINATION:

Based on this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Marcus Martinez, Assistant Planner



Date

EVALUATION OF ENVIRONMENTAL IMPACTS

During the completion of the environmental evaluation, the City relied on the following categories of impacts, noted as column headings in the IS checklist. All impact determinations are explained and supported by the information sources cited.

- A) “Potentially Significant Impact” is appropriate if there is substantial evidence that the project’s effect may be significant. If there are one or more “Potentially Significant Impacts” for which effective mitigation may not be possible, a Project EIR will be prepared.
- B) “Less Than Significant with Mitigation Incorporated” applies where the incorporation of project-specific mitigation would reduce an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” All mitigation measures must be described, including a brief explanation of how the measures would reduce the effect to a less than significant level.
- C) “Less Than Significant Impact” applies where the project would not result in a significant effect (i.e., the project impact would be less than significant without the need to incorporate mitigation).
- D) “No Impact” applies where the project would not result in any impact in the category or the category does not apply. This may be because the impact category does not apply to the proposed project (for instance, the project site is not within a surface fault rupture hazard zone), or because of other project-specific factors.

ENVIRONMENTAL ISSUES

1. <u>AESTHETICS</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1a. Would the project have a substantial adverse effect on a scenic vista?

The project site nor the proposed development of the Hayward Fire Station #6, Regional Aircraft Rescue Firefighting Facility (ARFF) and Fire Training Center are not abutting, visible or within any designated scenic vistas, State scenic highways, County scenic routes, ridgelines, hillside areas, or shorelines which will ensure the protection of scenic qualities and viewpoints toward other scenic vistas such as the San Francisco Bay and views to the East Bay Hills. As measured, the project site is located approximately one-mile from the Interstate-880 (Nimitz Freeway) which is designated as one of the scenic routes within the Alameda County General Plan Scenic Route Element.

¹However, due to existing physical buffers along the Interstate-880 Freeway such as sound walls, trees, and landscaping, the proposed development will not be visible from the County designated scenic route. Impacts to scenic vistas are considered **less than significant**.

1b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

¹ Alameda County Scenic Route Element (1994); https://www.acgov.org/cda/planning/generalplans/documents/Scenic_Route_Element_General_Plan_1966.pdf

According to the California Scenic Highway Mapping System², the project site is not located within or along any officially designated State scenic highway and will not impact designated scenic resources, including trees, rock outcroppings or historic buildings. As such the proposed project poses **no impact**.

1c. Would the project substantially degrade the existing visual character or quality of the site and its surroundings?

The proposed project is located on a relatively flat parcel and the development will be primarily visible from West Winton Avenue. The project will be setback approximately one-hundred (100) feet from the public right-of-way to reduce the scale and massing of the proposed 28'-0" tall fire station and classroom building. The primary structures (fire station, apparatus building, outdoor classroom, and entry canopy) are designed with a contemporary and modern architecture which will complement and enhance the frontage, character, and quality along West Winton Avenue and are not anticipated to have a substantial adverse effect of the site or its surroundings. In addition, the proposed development will ensure consistency with Economic Development Policy ED-5.5 (Quality Development) of the Hayward 2040 General Plan³ to require new developments to include quality site, architectural, and landscape design features to improve and protect the appearance and reputation of Hayward and Land Use Policy LU-9.2 (Design of City Public Facilities) where the City shall ensure that all City-owned facilities are designed to be compatible in scale, mass, and character with the neighborhood, district, or corridor in which they are located. Thus, as designed, the project would not substantially degrade the character or quality of the site and its surroundings and impacts are considered to be **less than significant**.

1d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

As the project includes the expansion of the existing fire station from 17,835 square-feet of building area to approximately 66,278 square-feet, typical on and off-site lighting fixtures (streetlights, parking lot lighting, building mounted fixtures, etc.) and indoor and exterior lighting from the structures will increase the amount of light emanating from the project site. The additional lighting fixtures are not anticipated to create an adverse negative impact that would affect day or nighttime views in the area.

As a condition of approval and pursuant to minimum performance and development standards found in Section 10-1.1985⁴ the Hayward Municipal Code, the exterior lighting shall be designed by a qualified lighting designer to direct fixtures downward toward the interior of the project site to avoid harmful glare into the eyes of pilots using the airport and shall not impair the visibility in the

² CalTrans Scenic Highways Mapping; <http://www.dot.ca.gov/design/lap/livability/scenic-highways/>

³ City of Hayward 2040 General Plan; <https://www.hayward2040generalplan.com/>

⁴ City of Hayward Zoning Ordinance – Minimum Design and Performance Standards for Airport Terminal Zones; https://library.municode.com/ca/hayward/codes/municipal_code?nodeId=15488

vicinity of the airport that could endanger the landing, take-off, or maneuvering of aircraft. Thus, the impacts of the proposed project are considered **less than significant** related to lighting and glare.

2. <u>AGRICULTURE AND FOREST RESOURCES</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2a. Would the project 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?

Per the California Department of Conservation, Important Farmland Finder Mapping System⁵, the project site is designated as “*Urban and Built-Up Land*”; therefore, the project does not involve the

⁵ Department of Conservation, Important Farmland Finder Mapping System <https://www.conservation.ca.gov/dlrp/fmmp>

conversion or net loss of any Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland); thus, **no impact**.

2b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

The proposed project is not zoned for agricultural uses nor is the property under Williamson Act contract; thus, **no impact** (Alameda County Williamson Act FY 2014/15).⁶

2c. Would the project 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))?

The current zoning of the proposed project is Air-Terminal Airport Commercial (AT-AC)⁷, and therefore does not involve the rezoning of forest land or timberland. The purpose of the AT-AC subdistrict is to provide for commercial and service activities that are clearly related to or supportive of the operational aspects of the Hayward Executive Airport; thus, **no impact** (City Zoning Map, Google Maps).

2d. Would the project result in the loss of forest land or conversion of forest land to non-forest use?

The proposed project does not involve the loss of forest land or involve conversion of forest land to non-forest use; thus, **no impact** (City Zoning Map, Google Earth).

2e. Would the project 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?

The proposed project would not result in the conversion of Farmland to non-agricultural uses nor would the development result in conversion of any forest land to a non-forest use (Zoning Map, Google Maps). Thus, **no impact**.

⁶ Alameda County Williamson Act FY 204/2015; ftp://ftp.consrv.ca.gov/pub/dlrp/wa/Alameda_14_15_WA.pdf

3. <u>AIR QUALITY</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) 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 (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3a. Would the project conflict with or obstruct implementation of the applicable air quality plan?

The proposed project is located in the City of Hayward, which is within the San Francisco Bay Area Air Basin, and is within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). Within the BAAQMD, ambient air quality standards for ozone (O3), carbon monoxide (CO), nitrogen dioxide (NO2), sulfur dioxide (SO2), particulate matter (PM10, PM2.5), and lead (Pb) have been set by both the State of California and the federal government. The State has also set standards for sulfate and visibility.

The BAAQMD is currently under State non-attainment status for ozone and particulate matter standards. The BAAQMD is classified as non-attainment for the federal ozone 8-hour standard and non-attainment for the federal PM2.5 24-hour standard. The project would not interfere with the implementation of project-specific transportation control measures listed in BAAQMD's latest Clean Air Plan. BAAQMD adopted the 2017 Clean Air Plan⁸ which is a comprehensive plan to improve Bay Area air quality and protect public health. The Clean Air Plan defines a control strategy to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest health risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce greenhouse gas emissions to protect the climate. Consistency with the 2017 Clean Air Plan can be determined if the project does the following: 1) supports the goals of the Clean Air Plan; 2) includes applicable control measures from the Clean Air Plan; and 3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

The proposed project would have emissions below the BAAQMD air pollutant significance thresholds because growth was anticipated in the Hayward 2040 General Plan and would further be consistent with surrounding land uses; therefore, the project would not conflict with any of the Land Use and Local Impact Measures of the Bay Area Clean Air Plan. In addition, the proposed project would include landscaping which would help reduce the heating effect. The proposed project would be built to current Title 24 Green Building standards. Therefore, the proposed project would not conflict with Energy and Climate Control Measures and would not disrupt or hinder implementation of a control measure from the Clean Air Plan and as such, this impact would be **less than significant**.

3b. Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Section 3 of the BAAQMD CEQA Guidelines⁹ includes Screening Criteria that is used to provide lead agencies and project applicants with a conservative indication of whether the proposed project could result in potentially significant air quality impacts. If the screening criteria is met by a proposed project, then the lead agency would not need to perform a detailed air quality assessment of their project's air pollutant emissions. In addition, the screening criteria in this section do not account for project design features, attributes, or local development requirements that could also result in lower emissions.

Based on Table 3-1 Operational-Related Criteria Air Pollutant and Precursor Screening Level Sizes, the proposed project to construct approximately 67,000 square-feet of floor area for the expansion of the existing fire station and fire training center would be well under the 149,000 square-foot operational criteria pollutant screening size threshold for nitrogen oxide (NOX) and under the

⁸ 2017 Bay Area Clean Air Plan; <http://www.baaqmd.gov/plans-and-climate/air-quality-plans/current-plans>

⁹ BAAQMD 2017 CEQA Guidelines; http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

227,000 square-foot threshold construction-related screening size for reactive organic gases (ROG) for the government (civic center) land use type. Although the proposed project exceeds the operational GHG screening size threshold of 27,000 square-feet - see Sections 7a and 7b for further discussion on how the proposed project will incorporate goals and policies from the City's 2040 General Plan and Climate Action Plan (CAP) to reduce the impacts to level **less than significant**.

Impacts related to construction activities would be further reduced as BAAQMD would require the implementation of Basic Construction Mitigation Measures to minimize fugitive dust generated by construction. Implementation of the BAAQMD's Basic Construction Mitigation Measures as standard construction management practices into the project (further stipulated as conditions of approval) would reduce construction impacts to **less than significant**. The following actions shall be incorporated into construction contracts and specifications for the project:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
- All visible mud or dirt tracked-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.
- All vehicle speeds on unpaved roads shall be limited to 15 mph.
- 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.
- 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.
- 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.
- A publicly visible sign shall be posted with the telephone number and person to contact at the City of Hayward regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD phone number shall also be visible to ensure compliance with applicable regulations.

3c. Would the project 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 (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

CEQA defines a cumulative impact as two or more individual effects, which when considered together, are considerable or which compound or increase other environmental impacts.

According to the BAAQMD, air pollution is largely a cumulative impact and no single project is

sufficient in size to itself result in nonattainment of ambient air quality standards. In developing the thresholds of significance for air pollutants used in the analysis above, BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. The BAAQMD CEQA Air Quality Guidelines indicate that if a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. If daily average or annual emissions of operational related criteria air pollutants exceed any applicable threshold established by the BAAQMD, the proposed project would result in a cumulatively significant impact. The project's construction and operational emissions would be considered **less than significant** since the proposed project is less than the thousand square-foot (ksf) operational criteria pollutant and construction related screening sizes for nitrogen oxides and reactive organic gases. Further, with the implementation of BAAQMD basic mitigation measures stipulated as conditions of approval, impacts would be further reduced within the air basin. Therefore, the project would not make a cumulatively considerable contribution to regional air quality impacts.

3d. Would the project expose sensitive receptors to substantial pollutant concentrations?

The development of the expanded fire station and the fire training center is not proposed to be sited or abutting near any sensitive receptors such as hospitals, day cares, residential properties, schools, etc. The proposed development of the facility will involve the demolition, construction, and expansion of the existing fire stations at the Hayward Executive Airport. Therefore, it will not introduce a new source of Toxic Airborne Contaminants (TACs) that would potentially affect sensitive receptors and would have a **less than significant impact**.

3e. Would the project create objectionable odors affecting a substantial number of people?

The proposed project would not include any significant and permanent sources of significant odors (i.e. wastewater treatment plants, landfill, composting stations, chemical plants, refineries, food manufacturer, etc.) that could create objectionable odors affecting a substantial number of people. Furthermore, the proposed project involves the physical and operational expansion of an existing land use (fire station) that does currently create objectionable odors that affect a substantial number of people. Thus, **less than significant impact**.

4. <u>BIOLOGICAL RESOURCES</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--	--------------------------	--------------------------	--------------------------	-------------------------------------

4a. Would the project 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?

The project site currently contains four existing structures (including the fire station) and paved impervious area located on 2.69-acres of airport property. The proposed development will expand the project site to approximately 6.73-acres of the Hayward Executive Airport that is designated as a developed and ruderal area (Background Conditions Report, Figure 7-1, Existing Vegetation Communities; Google Maps). Ruderal areas are generally composed of vacant parcels that have been disked or previously disturbed in some manner and developed areas do not offer a suitable habitat for sensitive species, whereas developed areas include commercial, residential, and industrial land uses, roads, and other areas determined to be dominated by human use. Biological resources found in developed areas are limited to urban landscaping such as intensely maintained landscaping, scattered native trees used as street trees, and on larger landscaped grounds such as schools.

Based on the General Plan’s Background Conditions Report, the areas that are likely to provide some form of habitat for special status species include the foothill areas toward the eastern portion of the City, the bay lands (salt marshes) adjacent to the Hayward Shoreline, and the riparian areas (e.g. areas situated adjacent to natural rivers or creeks) that bisect portions of the City. However, these potential habitat areas identified above are not located within the vicinity of the project site. In addition, the approximate 4.0-acre increase and expansion of the project site is primarily vacant, underutilized airport property surrounded by existing developments to the south, east, and west with airport operations (airport runways, tarmac, etc.) to the north. While increased development of the project site will result in permanent disturbance of the vacant site that likely hosts urban wildlife such as mice, gophers, squirrels among others, it will not have a substantial impact on any valuable habitat that is known to host candidate, sensitive or special status species. Thus, **less than significant** impact.

4b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

As noted above, the project site is located in an area identified as developed and ruderal which is generally composed of parcels that have been disked or previously disturbed in some manner, parcels which are not a suitable habitat for sensitive species, or areas that are primary dominated by human use. While development of the site with the proposed fire station and training facility will

result in permanent disturbance of a portion of the site which is may host some urban wildlife such as mice, gophers, squirrels and other small rodents, it will not have a substantial impact on any riparian habitat or other identified sensitive natural communities; thus, it is considered a **less than significant** impact.

4c. Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

The project site does not contain any wetlands as defined by Section 404 of the Clean Water Act; thus, **no impact**. (City of Hayward Background Conditions Report, Figure 7-1, Existing Vegetation Communities).

4d. Would the project 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?

As noted above in Biological Resources Sections 4(a) and 4(b), the project site is located in an area identified as developed and ruderal which does not provide a suitable habitat for sensitive species due to parcels and land that has been previously disturbed or dominated by human use. However, the project site does contain 27 existing mature trees that are proposed to be removed with the proposed development and expansion of the fire station facility. These existing mature trees proposed to be removed may contain active nests, which may impact migratory birds due to construction and grading-related activities. This impact would be reduced to a **less than significant impact** via incorporation of standard conditions of approval to comply with the Federal Migratory Bird Treaty Act and California Fish and Game Code Section 3503. Such requirement will state the following:

Pre-Construction Biologic Survey. If project construction activities are to occur within general nesting seasons identified between February 15th and September 1st, a qualified biologist shall conduct a pre-construction survey for active nests within 15 days prior to the start of work. Given the setting of the project site and the construction staging area, the radius of the pre-construction survey will be determined in consultation with the California Department of Fish and Wildlife (CDFW). In the event that active nests are identified on-site, appropriate buffer zones and types of construction activities restricted within the buffer zones will be determined in compliance with the Migratory Bird Treaty Act and California Fish and Game Code Section 3503.

The buffer zones will be implemented and maintained until the young birds have fledged and no continued use of the nest is observed, as determined by a qualified biologist. The project biologist shall have authority to order the cessation of all construction, grading, and demolition activities if the nesting birds exhibit abnormal behavior which may cause reproductive failure (nest abandonment and loss of eggs and/or young) until an appropriate buffer is established. Signs of nest abandonment as determined by the monitoring biologist, shall be reported to CDFW within 48 hours.

4e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

An Arborist Report was prepared by MacNair & Associates, dated September 14, 2017, evaluated and assessed the health, structural conditions, and value of the existing twenty-seven (27) trees on-site and has been attached to this document as **Appendix B**. According to the arborist report, the 27 trees consist of seven different species including bronze loquat (*Eriobotrya deflexa*), English walnut (*Juglans regia*), ginkgo (*Ginkgo biloba*), Italian stone pine (*Pinus pinea*), London plane tree (*Platanus x acerifolia* 'Bloodgood'), Shamel ash (*Fraxinus uhdei*), and willows (*Salix laevigata*). Pursuant to Chapter 10, Article 15 (Tree Preservation Ordinance) of the Hayward Municipal Code¹⁰, all of the existing trees on-site meet the criteria and definition of a “protected tree” and cannot be removed without a permit based on their minimum trunk diameters of four-inches for native trees and eight-inches for all other trees measured 54-inches above ground.

Given that all trees are proposed to be removed – no tree protection procedures or recommendations are provided. However, the Tree Preservation Ordinance requires that replacement trees be planted equal to or exceeding the appraised value of the existing trees using the methodology of the International Society of Arborists (ISA) Guide of Plant Appraisal. In order to compensate for the protected trees that would be removed, the proposed landscaping plans calls for parking lot trees to be upsized, replacement and mitigation trees to be planted, permeable pavers to be installed, and the remaining costs to be placed in an exclusive Tree Mitigation Fund in which future Capital Improvement Projects in the vicinity of the project shall be required to incorporate the appraised balance by tree planting, permeable paver installation, or a combination of the two that provides the earth cooling benefit a tree would. A capital improvement project has been identified along Hesperian Boulevard that includes rehabilitation of the medians, streetscape improvements, planting, sidewalk rehabilitation, and bike lanes where the tree mitigation funds can be distributed to mitigate the loss of the existing, mature trees at the Fire Station.

Therefore, the project would not conflict with applicable policies protecting biological resources; thus, resulting in a **less than significant impact with mitigation incorporated.**

Mitigation Measure BIO-1 Tree Removal Mitigation. The proposed development shall incorporate the following mitigation measures to mitigate the loss of the existing trees located on-site proposed for removal to the appraised value pursuant to the City’s Tree Preservation Ordinance and to the satisfaction of the City Landscape Architect:

- The installation of 4,217 square-feet of permeable pavers within the parking lot, pedestrian, and entry areas that will include pavers, 2-inch thick aggregate base, 4-inch thick stone for proper infiltration into the soil;

¹⁰ Hayward Municipal Code, Tree Preservation Ordinance;
https://library.municode.com/ca/hayward/codes/municipal_code?nodeId=HAYWARD_MUNICIPAL_CODE_CH10PLZO_SU_ART15TRPR

- Upsizing required minimum 15-gallon parking lot trees to a minimum 24-inch box. Where feasible, 36-inch box trees may be planted; and
- Tree Mitigation Fund in the amount of \$129,309 that will be dedicated for a CIP project in the vicinity of the project site. The Hesperian Boulevard Landscape Median Improvement Project has been identified as the closest project in planning and in proximity to the project site. Funds shall be allocated within 3-years period from the date of the Certificate of Occupancy for the new Fire Station, Training Center, and ARFF.

4f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

The City of Hayward does not have an adopted Habitat Conservation Plan or Natural Community Conservation Plan; thus, **no impact.**

5. <u>CULTURAL RESOURCES</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outdoors of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In accordance with Assembly Bill 52 and further explained in Tribal Resources Section 17a and 17b, the City of Hayward provided notice and opportunity for consultation to the Ione Band of Miwok Indians in March 2018. The tribe had 30 days from the receipt of the letter to request consultation with the City; no request for formal consultation was received by the City from the tribe within the 30-day period or after.

5a. Would the project cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5?

There are no known historic resources associated with the project site or the adjacent parcels (City of Hayward Background Conditions Report, Figures 1-3 and 1-4, and Table 1-2). In the unlikely event that historic or cultural resources are discovered during excavation related to later phases of the project, standard Conditions of Approval for all development projects require the contractor to stop all work adjacent to the find and contact the City of Hayward Development Services Department to preserve and record the uncovered materials so it can be safely removed (General Plan Policy Natural Resources NR-7.2, Paleontological Resource Mitigation).¹¹

If standard procedures are followed in the event cultural/historical resources are uncovered at the project site, there will be a **less than significant impact** related to the project (Hayward

¹¹ City of Hayward Natural Resources General Plan Element; <https://www.hayward2040generalplan.com/goal/NR7>

2040 General Plan Background Report and City of Hayward Historical Resources Survey and Inventory Report, July 2010). The following standard Condition of Approval would be incorporated into the project:

If unknown pre-contact or historic-period archaeological materials are encountered during project activities, all work in the immediate vicinity of the find shall halt until a qualified archaeologist can evaluate the find and make recommendations. Cultural resources materials may include pre-contact resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock, as well as historic resources such as glass, metal, wood, brick, or structural remnants. If the qualified archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations shall be required to mitigate adverse impacts from project implementation. These additional studies may include, but are not limited to recordation, archaeological excavation, or other forms of significance evaluations.

5b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

No known archaeological resources exist on the site (City of Hayward Background Conditions Report, Figures 1-3 and 1-4, and Table 1-2). As indicated above, in the unlikely event that historical or cultural resources are discovered in later phases of work, standard Conditions of Approval for all development projects would apply as described in Section 5a) above. Therefore, if standard procedures are followed in the event cultural/historical resources are uncovered at the project site, there will be a **less than significant** impact related to the project (Hayward 2040 General Plan).

5c. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

No known paleontological resources exist on the site (City of Hayward Background Conditions Report, 7-137 and 7-138). There are no unique geological features on or near the site (City of Hayward Webmap, Google Earth). In the unlikely event that paleontological resources are discovered during later phases of development, the project's standard Conditions of Approval for all development projects would apply as described in 5a above.

If standard procedures are followed in the event cultural, historical or paleontological resources are uncovered at the project site, there will be a **less than significant** impact related to the development (Hayward 2040 General Plan).

5d. Would the project disturb any human remains, including those interred outside of formal cemeteries?

There is no recorded information related to the location of known human remains or cemeteries near the project site; however, standard procedures for grading operations shall be followed during development, which require that if any such remains or resources are discovered, grading operations shall be halted, the City and County Coroner shall be notified and the resources/remains shall be evaluated by a qualified professional. Further, if necessary, mitigation plans shall be formulated and implemented prior to commencement of grading operations consistent with the City's General Plan Policy NR-7.2. These standard requirements will become conditions of approval should the project be approved thus resulting in a **less than significant impact** related to the potential disturbance of human remains. The condition of approval would include the following standard:

If human remains are identified during construction and cannot be preserved in place, the City of Hayward shall fund 1) the removal and documentation of the human remains from the project corridor by a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology, 2) the scientific analysis of the remains by a qualified archaeologist, should such analysis be permitted by the Native American Most Likely Descendant, and 3) the reburial of the remains, as appropriate. All excavation, analysis, and reburial of Native American human remains shall be done in consultation with the Native American Most Likely Descendant, as identified by the California Native American Heritage Commission.

6. GEOLOGY AND SOILS Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii. Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii. Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv. Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The following information and analysis below are based on a geotechnical report prepared by Rockridge Geotechnical on July 14, 2017 for the City of Hayward. A copy of this report has been attached to this Initial Study as Appendix C.

6a. Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

a(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.

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 plate and North American plate 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 province is bounded on the east by the Great Valley and on the west by the Pacific Ocean.

According to the geotechnical report prepared by Rockridge Geotechnical (2017), the project site is not located within a known Earthquake Hazard Zone nor is there geomorphic evidence suggestive of active faulting within the site; however, the subject parcel is located in an area that is assigned to be within a fault, landslide and liquefaction zone according to the California Department of Conservation web-based GIS map due to its proximity to the Hayward Fault. The project site is located approximately 2.5 miles (4 kilometers) west of the Alquist-Priolo Earthquake Fault Zone (ABAG GIS, Hayward Webmap)¹². As such, a major earthquake in the future would expose people and property to strong seismic ground shaking, liquefaction, and soil instability. However, it is essential to note that all structures will be designed using sound engineering judgment and adhere to the latest California Building Code (CBC) requirements as adopted by the City of Hayward which will minimize impacts related to such activity. Further, it is concluded the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low. Thus, the project in conformance to the applicable regulations would result in a **less than significant impact**.

a(ii). Strong seismic 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, including the San Andreas, Calaveras, and San Gregorio 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,

¹² Association of Bay Area Governments (ABAG), 2017. GIS Website; <http://gis.abag.ca.gov/>

and magnitude and duration of the earthquake. The site is about four kilometers from the Hayward Fault. The implementation of California Building Code (CBC) and California Fire Code (CFC), as appropriate, would reduce the impact to a level of **less than significant**.

a(iii). Seismic-related ground failure including liquefaction?

Liquefaction is a phenomenon in which saturated soil temporarily loses strength from the build-up of excess pore water pressure, especially during earthquake-induced cyclic loading. Soil susceptible to liquefaction includes 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 has been mapped within a zone of liquefaction potential as shown on the California Geological Survey Map¹³. The liquefaction analyses indicate that, in general, relatively thin layers of potentially liquefiable soil were encountered. The potentially liquefiable soils have soil behavior types "sand", "silty sand", "sandy silt" and "clayey silt". It is estimated total and differential liquefaction-induced settlements will be on the order of 1/4 to 1-1/4 inches and 1/2 inch over a horizontal distance of 30 feet, respectively.

The non-liquefiable soil overlying the potentially liquefiable soil layers is sufficiently thick such that the potential for surface manifestations from liquefaction, such as sand boils, and loss of bearing capacity for shallow foundations, is low. Considering the potentially liquefiable soil layers are not continuous, Rockridge Geotechnical concludes the potential for lateral spreading at the site during a major earthquake is nil; thus, **less than significant**.

a(iv). Landslides?

The project site and surrounding parcels are generally flat and level and not located within a Seismic Landslide Zone based on the California Geologic Survey web-based map. Therefore, the potential hazard of landslides is very low for the site and will result in **no impact**.

6b. Would the project result in substantial soil erosion or the loss of topsoil?

The redevelopment of the project site would involve construction activities such as grading and excavation, which could result in temporary soil erosion when the disturbed soils are exposed to wind or rainfall. Because the proposed project would involve over an acre of land disturbance, it would be required to comply with the State Water Resources Control Board's Construction General Permit, which requires the preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP would include erosion control best management practices that would minimize erosion during construction. Upon completion of

¹³ California Geological Survey Map; <http://maps.conservation.ca.gov/cgs/gmc/>

construction, the project site would be covered with structures, pavement, and landscaping and would not include areas of exposed soil. Therefore, the proposed project would result in **less than significant** impacts related to soil erosion or loss of top soil.

6c. Would the project 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?

Rockridge Geotechnical, per on-site testing, identified the potential for up to 1-1/4 inches of total settlement and 1/2 inch of differential settlement over a horizontal distance of 30 feet due to post-liquefaction reconsolidation following a major earthquake. The soil underlying the site has moderate strength and moderate compressibility. Therefore, it was concluded the proposed structures could be supported on individual spread footings at interior column locations and continuous, deepened perimeter footings. The perimeter footings will be deepened to act as barriers to reduce the potential for moisture change beneath the slab-on-grade floors. Alternatively, the proposed buildings may be supported on a stiffened shallow foundation system, such as a mat, based on the recommendations incorporated by the Project Geotechnical Engineer.

The consultant estimated total settlement of the proposed structures supported on spread footings or mat foundations designed using the allowable bearing pressures which will be less than one inch and differential settlement will be less than 1/2 inch over a horizontal distance of 30 feet. However, these impacts can be reduced to a level **less than significant with mitigation** incorporated per Mitigation Measure GEO-1 below.

Mitigation Measure GEO 1: A licensed Geotechnical Engineer, or their representative, shall be retained to perform a design-level geotechnical investigation. The design-level investigation findings shall be used to address all the geotechnical concerns described in the Geotechnical Investigation. The recommendations of the Geotechnical Investigation and any recommendations included in the required design-level geotechnical investigation for the project shall be incorporated into all design and engineering plans including, but not limited to site preparation, grading, fill placement, foundations, pavement design, seismic design, etc. During construction, the geotechnical engineer should provide on-site observation and testing during site preparation, placement and compaction of fill, and installation of building foundations. At the end of construction, the Geotechnical Engineer shall provide a letter regarding contractor compliance with project plans and specifications and with the recommendations of the Geotechnical Investigation and any supplemental recommendations issued during construction. The letter shall be submitted for review to the City of Hayward Building Division.

6d. Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

The geotechnical report reported that project site included the presence of moderately to highly expansive near-surface soil. Expansive near-surface soils are subject to volume changes during seasonal fluctuations in moisture content. These volume changes can cause movement and cracking of foundations, slabs, and pavements. Therefore, foundations and slabs should be designed and constructed to mitigate the effects of the expansive soil. These effects can be mitigated by moisture-conditioning the expansive clay below slabs, providing non-expansive soil below slabs, and supporting foundations below the zone of severe moisture change or providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells. This impact may be reduced to level of **less than significant with mitigation** incorporating Mitigation Measure GEO-1, listed above.

6e). Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The proposed project will not involve the use of septic tanks or an alternative waste water disposal system. Thus, **no impact.**

7. <u>GREENHOUSE GAS EMISSIONS</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7a. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Greenhouse gases (GHGs) are present in the atmosphere naturally, released by natural sources, or formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO₂);
- Methane (CH₄);
- Nitrous oxide (N₂O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur Hexafluoride (SF₆).

The BAAQMD CEQA Air Quality Guidelines¹⁴ contain methodology and thresholds of significance for evaluating GHG emissions from land use type projects. The BAAQMD thresholds were developed specifically for the Bay Area after considering the latest Bay Area GHG inventory and the effects of Assembly Bill 32 (AB 32) scoping plan measures that would reduce regional emissions. BAAQMD intends to achieve GHG reductions from new land use developments to close the gap between projected regional emissions with AB 32 scoping plan measures and the AB 32 targets. The BAAQMD has developed different thresholds for evaluating GHG emissions from projects which are:

¹⁴ BAAQMD 2017 CEQA Guidelines; http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

- Compliance with a qualified greenhouse gas reduction strategy; or
- Annual emissions of less than 1,100 metric tons or 4.6 metric tons per capita per year.

The Hayward 2040 General Plan integrates and updates the comprehensive, communitywide GHG emission reduction strategy contained in the City's 2009 Climate Action Plan to achieve a GHG emission reduction target of 20 percent below 2005 levels by the year 2020. The General Plan also recommends longer term goals for GHG reductions of 62.7 percent below 2005 levels by the year 2040 and 82.5 percent below 2005 levels by the year 2050.¹⁵

Construction Activities. Construction activities associated with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO₂, CH₄, and N₂O. Furthermore, CH₄ is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change. However, implementation of BAAQMD's Basic Construction Mitigation Measures and construction management practices listed in the Air Quality section above would reduce the GHG emissions by reducing the amount of construction vehicle idling and by requiring the use of properly maintained equipment. In addition, best management practices assumed to be incorporated into construction of the proposed project include, but are not limited to: using local building materials of at least 10 percent and recycling or reusing at least 50 percent of construction waste or demolition materials. Therefore, project construction impacts associated with GHG emissions would be **less than significant**.

Operational Emissions. Long-term operation of the proposed project would generate GHG emissions from area and mobile sources as well as indirect emissions from sources associated with energy consumption. Mobile-source GHG emissions would include project-generated vehicle trips associated with trips to the project site. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site, and other sources.

The City of Hayward adopted a CAP in 2009 with the goal to reduce communitywide emissions 12.5 percent below 2005 levels by the year 2020, and to set the City on a course to achieve a long-term emission reduction goal of 82.5 percent below 2005 levels by the year 2050. Further, the Hayward 2040 General Plan Draft EIR contains a comprehensive list of specific General Plan policies and programs that constitute the City's updated GHG emission reduction strategy. These policies and programs contain GHG emission reduction measures that apply to both existing and new development. Implementation of these measures would reduce GHG emissions by more than 20 percent below 2005 levels by the year 2020 when combined with State and federal programs.

¹⁵ City of Hayward 2009 Climate Action Plan; https://www.hayward-ca.gov/sites/default/files/Hayward_CAP_FINAL_11-6-09%20-%20full%20document.pdf

The City of Hayward considers the City’s 2009 Climate Action Plan combined with the Hayward 2040 General Plan to be a Qualified Greenhouse Gas Reduction Strategy.¹⁶

The project would be consistent with the City’s Qualified GHG Reduction Strategy and would implement the applicable policies and programs of that plan. One purpose of the Qualified Greenhouse Gas Reduction Strategy is to streamline the decision-making process regarding a proposed project’s impact on GHG emissions within the City and to, as stated above, to reduce 2020 GHG emissions by 20 percent of 2005 emissions. As part of the evaluation of the project’s consistency with the CAP, the project’s incorporation of applicable strategies and measures from the plan as binding and enforceable components of the project.

As proposed, the construction and development of the new Fire Station and Fire Training Center proposes to be a Leadership in Energy and Environmental Design (LEED) Platinum building. LEED is a national certification system developed by the U.S. Green Building Council (USGBC) to encourage the construction of energy and resource-efficient buildings. LEED certification involves scoring buildings on eight categories including Innovation and Design, Location and Linkages, Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Air Quality, and Awareness and Education¹⁷. This project will replace the existing fire station that was constructed circa 1960s and will replace it with a sustainable site development improving energy efficiency and resource conservation (water, energy, etc.) while also reducing GHG emissions. Therefore, projects that show consistency with the plan forecasts and implement applicable strategies would be considered **less than significant**.

City of Hayward GHG Reduction Strategies Applicable to Proposed Project¹⁸:

Applicable Policy or Implementing Program	Goal/Policy/ Implementation Program
Policy NR-2.10 Zero-Emission and Low- Emission Vehicle Use	The City shall encourage the use of zero-emission vehicles, low- emission vehicles, bicycles and other non-motorized vehicles, and car-sharing programs by requiring sufficient and convenient infrastructure and parking facilities throughout the City.
Policy NR-4.1 Energy Efficiency Measures	The City shall promote the efficient use of energy in the design, construction, maintenance, and operation of public and private facilities, infrastructure, and equipment.
Policy NR-4.11 Green Building Standards	The City shall require newly constructed or renovated public and private buildings and structures to meet energy efficiency design and operations standards with the intent of meeting or exceeding the State’s zero net energy goals by 2020.

¹⁶ City of Hayward Draft Environmental Impact Report (DEIR) 2014

¹⁷ United States Green Building Council (USGBC) Leadership in Energy and Environmental Design; <https://new.usgbc.org/leed>

¹⁸ City of Hayward General Plan Air Quality and GHG Reduction; <https://www.hayward2040generalplan.com/goal/NR2>

Policy NR-4.13 Energy Use Data	The City shall consider requiring disclosure of energy use and/or an energy rating for single family homes, multifamily properties, and commercial buildings at certain points or thresholds.
Policy NR-6.9 Water Conservation	The City shall require water customers to actively conserve water year-round, and especially during drought years.
Goal M-5 Pedestrian Facilities	Provide a universally accessible, safe, convenient, and integrated pedestrian system that promotes walking.
Policy M-9.9 Alternative Fuel Vehicle Parking	The City shall require new private parking lots to grant low-carbon vehicles access to preferred parking spaces and shall require new private parking lots to provide electric vehicle charging facilities.
NR-2.4 Community Greenhouse Gas Reduction	The City shall work with the community to reduce community based GHG emissions by 20 percent below 2005 baseline levels by 2020 and strive to reduce community emissions by 61.7 percent and 82.5 percent by 2040 and 2050, respectively.
NR-2.6 Greenhouse Gas Reduction in New Development	The City shall reduce potential greenhouse gas emissions by discouraging new development that is primarily dependent on the private automobile; promoting infill development and/or new development that is compact, mixed use, pedestrian friendly, and transit oriented; promoting energy efficient building design and site planning; and improving the
NR-4.3 Efficient Construction and Development Practices	The City shall encourage construction and building development practices that maximize the use of renewable resources and minimize the use of non-renewable resources throughout the life-cycle of a structure.
NR-4.6 Renewable Energy	The City shall encourage and support the generation, transmission, use, and storage of locally distributed renewable energy in order to promote energy independence, efficiency, and sustainability. The City shall consider various incentives to encourage the installation of renewable energy projects (i.e. reduced permit fees and permit streamlining).
NR-4.11 Green Building Standards	The City shall require newly constructed or renovated public and private buildings and structures to meet energy efficiency design and operations standards with the intent of meeting or exceeding the State's zero net energy goals by 2020.
NR-4.12 Urban Forestry	The City shall encourage the planting of native and diverse tree species to reduce heat island effect, reduce energy consumption, and contribute to carbon mitigation.
NR-6.9 Water Conservation	The City shall require water customers to actively conserve water year-round, and especially during drought years.
Policy PFS-7.12 Construction and Demolition Waste Recycling	The City shall require demolition, remodeling and major new development projects to salvage or recycle asphalt and concrete and all other non-hazardous construction and demolition materials to the maximum extent practicable.
Policy PFS-7.14 Commercial Recycling	The City shall encourage increased participation in commercial and industrial recycling programs and strive to comply with the recycling provisions approved by the Alameda County Waste Management Authority (ACWMA) Board.
Source: Hayward 2040 General Plan, 2009 Climate Action Plan NR = Natural Resources, PFS = Public Facilities and Services, M = Mobility	

7b. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The project would be subject to new requirements under rule making developed at the State and local level regarding greenhouse gas emissions and be subject to local policies, such as the City Climate Action Plan, that may affect emissions of greenhouse gases. As described above, the project would implement features consistent with applicable policies and implementing programs of the Hayward 2040 General Plan that serves as the City's GHG Reduction Strategy. Therefore, the project would not conflict with plans adopted for the purposed of reducing the emissions of greenhouse gases, and a **less-than-significant** impact would occur.

8. <u>HAZARDS AND HAZARDOUS MATERIALS</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
--	--------------------------	--------------------------	-------------------------------------	--------------------------

A Phase 1 Environmental Site Assessment (ESA) was prepared by Trans Tech Consultants in February 2018 for the City of Hayward. TransTech Consultants prepared their Phase 1 ESA based on the guidelines of the American Society of Testing and Materials (ASTM) and included their report analysis on the following conditions: Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), and Historical Recognized Environmental Conditions (HRECs). In addition, a soil sampling investigation was conducted and a report as well as a Preliminary Soil Management Plan were prepared by ERAS Environmental. A copy of these reports, analyses, and plans may be found in Appendix D and E.

8a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

The project site would be subject to the existing regulatory programs for hazardous materials. The Hayward Fire Department – Hazardous Materials Unit is designated as the Certified Unified Program Agency (CUPA) that oversees the regulation of hazardous materials locally with the City through the following programs¹⁹:

- California Environmental Reporting Systems (CERS);
- Hazardous Water Generator and/or Treatment Permitting;
- Underground Storage Tank (UST) program;
- Aboveground Storage Tank (AST) program; and
- California Accidental Release Program (CalARP)

The role of a CUPA is to consolidate, coordinate, and make consistent the administrative requirements, permits, inspections, and enforcement activities associated with the regulation of hazardous materials and hazardous wastes. Businesses that store or use hazardous materials in the City limits of Hayward are required to submit chemical and facility information on the CERS, which is a statewide web - based system to support Certified Unified Program Agencies (CUPAs) in electronically collecting and reporting various hazardous materials - related data as mandated by the California Health and Safety Code and 2008 legislation (AB 2286). Chapter 6.95 of Division 20 of the California Health and Safety Code requires that a Hazardous Materials Business Plan (HMBP) must be submitted to the local CUPA if on - site hazardous materials exceed in aggregate any of the following: 55 gallons for liquids; 500 pounds for solids; or 200 cubic feet of gases at

¹⁹ City of Hayward Fire Department – Hazardous Materials; <https://www.hayward-ca.gov/fire-department/office-fire-marshall/hazardous-materials>

standard temperature and pressure. HMBPs are required to be submitted electronically to the CERS and must include facility information, a Hazardous Materials Inventory Statement, an Emergency Response Plan, and an Emergency Response Training Plan. The HMBP has to be re-certified for completeness and accuracy every year or updated and revised as necessary. The Hayward Municipal Code Chapter 3, Article 8 includes regulations for all facilities that handle hazardous materials, even at quantities that do not require the filing of a HMBP.

Worker health and safety is regulated at the federal level by the US Department of Labor, Occupational Safety and Health Administration (OSHA). OSHA regulations include training requirements for construction workers and a requirement that hazardous materials are accompanied by manufacturer's Safety Data Sheets (SDSs). The Federal Occupational Safety and Health Act of 1970 authorizes states to establish their own safety and health programs with OSHA approval. Worker health and safety protections in California are regulated by the California Department of Industrial Relations (DIR). The DIR includes the Division of Occupational Safety and Health (DOSH), which acts to protect workers from safety hazards through its California OSHA (Cal/OSHA) program. Cal/OSHA regulations include requirements for protective clothing, training, and limits on exposure to hazardous materials. California standards for workers dealing with hazardous materials are contained in California Code of Regulations (CCR) Title 8 and include practices for all industries (General Industrial Safety Orders), and specific practices for construction, and other industries. The routine transport, use, and disposal of hazardous materials at the project site during operation and construction activities would be required to comply with a project Health and Safety Plan (HASP) prepared in accordance with CCR Title 8, which would mitigate potential health hazards for workers related to the routine transport, use, or disposal of hazardous materials to a less than significant level.

The transportation of hazardous materials is subject to United States Department of Transportation (DOT), Resource Conservation and Recovery Act (RCRA), and State regulations. In 1990 and 1994, the federal Hazardous Material Transportation Act was amended to improve the protection of life, property, and the environment from the inherent risks of transporting hazardous material in all major modes of commerce. The USDOT developed hazardous materials regulations, which govern the classification, packaging, communication, transportation, and handling of hazardous materials, as well as employee training and incident reporting. The California Highway Patrol, the California Department of Transportation (Caltrans), and the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) are responsible for enforcing federal and State regulations pertaining to the transportation of hazardous materials.

Construction of the proposed project would result in the generation of various waste materials that would require recycling and/or disposal, including some waste materials that may be classified as hazardous waste. Hazardous wastes would be required to be transported by a licensed hazardous waste hauler and disposed of at facilities that are permitted to accept such materials as required by DOT, RCRA, and state regulations.

Compliance with the existing hazardous materials regulations and programs described above, including requirements for HMBPs and RMPs for facilities handling significant quantities of

hazardous materials, OSHA and Cal/OSHA regulations, CCR Title 8; the CGP; and DOT, RCRA, and state regulations, would ensure that the proposed project would not create a significant hazard to the public or the environment associated with the routine transport, use, or disposal of hazardous materials by ensuring that these materials are properly handled during construction and operation of the proposed project

The ongoing operation of the proposed fire station, aircraft rescue and firefighting (ARFF), and hazardous materials apparatus training facility will involve the routine use and disposal of hazardous materials which will include greases, oils, and cleaning-burning fuel such as propane as well as the installation of a UST. However, the use of the above-listed materials will not create a significant hazard to the public or the environment provided the facility maintains compliance and adherence to local, county, regional, state and Federal laws; thus, will result in a **less than significant impact.**

8b. Would the project 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?

Waste soil will be generated from excavations for the proposed building slabs and footings, a basement for one of the buildings, a pump test pit, a fuel underground storage tank (UST) excavation, and grading of the parking area. The soil to be disposed from this work consists of an approximate total volume of 7,900 cubic yards (11,850 tons).

Based on the soil sampling completed by ERAS Environmental, it was revealed concentrations of arsenic were present that exceeded the threshold for safe direct human exposure, and therefore engineering controls to protect workers during construction activities shall be required. Mitigation will be required to be incorporated into the proposed project to ensure protection for workers, nearby residents and surrounding nearby areas with respect to work protection, temporary storage of waste soil, dust management, and soil disposal. The primary health concern at the property is the risk to human health and safety from contact with soil if it is disturbed.

The SMP presents information and instructions to be used during future construction and other subsurface activities at the property. The purpose of the SMP is to protect property occupants, workers, nearby residents, and the surrounding area from direct exposure to contaminants (e.g. arsenic); therefore, adherence to the SMP will reduce impacts related to the release of hazardous materials into the environment to a level **less than significant with mitigation.** Mitigation Measure HAZ-1.0 will stipulate compliance with the provided Preliminary Soil Management Plan (SMP) and not create a significant hazard to the public and the environment through reasonably foreseeable upset and accidental conditions. A Final SMP shall be provided to the City of Hayward Fire Department and the construction plans should contain a narrative of the worker protection measures, waste storage and disposal, and be signed and stamped by a Professional Engineer licensed in California, prior to the issuance of a building permit and ongoing mitigation shall be maintained during construction and excavation activities.

Mitigation Measure HAZ-1.0 (Soil Management Plan):

- New construction that will disturb underlying soil must include plans for proper protection of workers, temporary storage of waste soil, proper disposal and repair of surfaces disturbed. The plans should be reviewed by the Alameda County Environmental Health Department and/or the City of Hayward;
- Should excavation be performed - workers suitably trained in hazardous waste operations (HAZWOPER) shall be contracted to perform the excavation. Soil excavated from the area shall be covered with plastic at the completion of the workday;
- During excavation activities, the area shall be secured so that residents and passersby cannot easily access the excavation area. Excavated soil shall always be covered to prevent dust from blowing into the public right-of way. Water shall be sprayed on the exposed dirt area to prevent dust;
- Equipment used for excavation activities will be decontaminated on-site prior to leaving the Property. The decontamination will consist of washing down the equipment and vehicles with water. The wastewater will be contained and properly disposed. Vehicles leaving the Property will be cleaned to avoid tracking mud and dirt onto the adjacent roadways. Mud and dirt that is spilled onto the sidewalk or roadway will be promptly cleaned; and
- Excavated soil will be covered after each workday. Soil samples shall be collected for waste profiling. The results of this sampling shall be provided to the waste disposal facility. After the soil is accepted by an appropriate disposal facility, the soil will be loaded and transported by a suitable carrier to the landfill. The soil shall be covered with polyethylene for transport. The soil shall be moistened during loading to minimize release of dust during transportation.

8c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

The project site is not located within one-quarter mile of an existing or proposed school; thus, **no impact**. The closest school is Longwood Elementary School which is more than a half-mile away.²⁰

8d. Would the project 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?

The project site is listed as a closed leaking UST case on the State Water Resources Control Board's (State Water Board's) GeoTracker²¹ database,⁷⁰ although no evidence of former or existing USTs on the project site were identified in the 2017 Phase I ESA. GeoTracker contains records of "Closure/ No Further Action Letter and Site Closure Summary" that was issued on July

²⁰ California Department of Education. California School Directory; <https://www.cde.ca.gov/schooldirectory/>

²¹ State Water Resources Control Board GeoTracker; <http://geotracker.waterboards.ca.gov/>

16, 2009. In addition, the proposed project site is not listed on the State of California's Department of Toxic Substances Control's EnviroStor Webpage²² and the property is not located on the Cortese List. Thus, **less than significant impact.**

8e. 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 for people residing or working in the project area?

As noted earlier, the proposed development includes the expansion of the existing City of Hayward Fire Station #6, Aircraft Rescue Firefighting Facility (ARFF) and Hazardous Materials Apparatus training facility to include the construction of a new fire station, classroom buildings, training simulation structures, apparatus building, hangar building, etc. As such, the proposed project would provide expanded emergency services for adjacent residential and non-residential properties, especially the Hayward Executive Airport. The ARFF will maintain primary access to the airport runway and tarmac along the western boundary of the project site in the event of an airport emergency for quick and efficient access to the airport. In addition, the project has obtained approval of a 7460-1 (Notice of Proposed Construction or Alteration) from the Federal Aviation Administration (FAA)²³ which will review the proposed project and ensure adequate air safety and the efficient use of unobstructed navigable airspace. These approvals and clearance documents have been included in this environment document as Appendix F. Thus, **less than significant impact.**

8f. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

See Section 8e above. The proposed project has received clearances from the FAA for the development and expansion of the existing fire station and training center. Thus, **less than significant impact.**

8g. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

The proposed project proposes the construction of the fire station, training center, and ARFF which will not impair the implementation of adopted emergency response plans or emergency evacuation plans. The project is proposed to increase and enhance emergency services that are currently provided by the existing Fire Station #6 facility by including an Aircraft Rescue Firefighting Facility in the event of rare but possible emergencies at the Hayward Executive Airport. The site has been designed to accommodate the depth and size of fire engines and apparatuses, so they can traverse through the station campus with sufficient turnaround radii. The

²² California Department of Toxic Substance Control, Cortese List Data;
https://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm

²³ Federal Aviation Administration Form FAA 7460 Document;
<https://www.faa.gov/forms/index.cfm/go/document.information/documentID/186273>

expansion of the fire station and training center is also anticipated and planned for calls for service outside of the Hayward Executive Airport as needed, where engines may choose to enter or exit along either Saklan or Manzella Roads. Therefore, the project will not interfere with an adopted emergency response plan or emergency evacuation plan; thus, **less than significant impact**.

8h. Would the project expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

The project site is not located within the City of Hayward's designated Wildland/Urban Interface Area ²⁴ as the project is located west of Mission Boulevard outside of the proximity of the Hayward Highland area which is susceptible to fires. The project area is located in an area identified as developed and ruderal area, which is generally flat and does not include a significant amount of brush or vegetation that may act as fuel for any wildland fires. As required by the California Fire Code, most of the habitable structures proposed on-site will be sprinklered to minimize the spread of fires onto adjacent private properties. The proposed project does include several training simulation buildings that will occasionally be set on fire for educational purposes to train fire cadets, students, etc. on the appropriate mechanisms how to extinguish a fire properly. These training simulations will be limited and contained to areas away from the public right-of-way where no proposed landscaping is present to minimize any potential risk of fire. All training and simulated fires will be supervised by the experienced fire prevention personnel and firefighters. Therefore, the project will not expose people or structures to a significant risk of loss, injury or death involving wildfires including wildlands that are adjacent to urbanized areas which will have **less than significant impact** on the environment.

²⁴ City of Hayward Hillside Design Guidelines and Urban/Wildland Interface' <https://www.hayward-ca.gov/sites/default/files/COH%20Hillside%20Design%20Urban-Wildland%20Interface%20Guidelines.pdf>

9. <u>HYDROLOGY AND WATER QUALITY</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or offsite?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Analysis provided below is based on the Stormwater Management Plan and Hydrology and Hydraulics Memorandum, prepared by BKF, dated February 1, 2017. A copy of these documents has been attached to this Initial Study as Appendix G.

9a. Would the project violate any water quality standards or waste discharge requirements?

Water quality in the State of California is regulated by the State Water Resources Control Board (State Water Board) and the nine Regional Water Quality Control Boards. The City of Hayward is located within the jurisdiction of the San Francisco Bay Regional Water Quality Control Board (RWQCB). Section 303(d) of the Federal Clean Water Act (CWA) requires that states identify water bodies including bays, rivers, streams, creeks, and coastal areas that do not meet water quality standards and the pollutants that are causing the impairment. Total Maximum Daily Loads (TMDLs) describe the maximum amount of a pollutant that a water body can receive while still meeting established water quality standards. A TMDL requires that all sources of pollution and all aspects of a watershed's drainage system be reviewed and set forth action plans that examine factors and sources adversely affecting water quality and identify specific plans to improve overall water quality and reduce pollutant discharges into impaired water bodies.

The National Pollutant Discharge Elimination System (NPDES) was created under the CWA and is regulated by the State Water Board in California to prohibit the discharge of pollutants to receiving waters unless the discharge is in compliance with NPDES permit requirements. The NPDES requirements that apply to both the construction-phase and the operation-phase of the project are described below.

Construction-Phase. The proposed project would disturb greater than 1 acre of land, and therefore would be required to obtain coverage under the Construction General Permit²⁵ (State Water Board Order 2009-0009-DWQ (General Permit)). On-site construction activities subject to the General Permit include clearing, grading, excavation, and soil stockpiling. The General Permit also requires the development of a Storm Water Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer. A SWPPP identifies all potential pollutants and their sources, including erosion, sediments, and construction materials and must include a list of Best Management Practices (BMPs) to reduce the discharge of construction-related stormwater pollutants. A SWPPP must include a detailed description of controls to reduce pollutants and outline maintenance and inspection procedures. Typical sediment and erosion BMPs include protecting storm drain inlets, establishing and maintaining construction exits and perimeter controls to avoid tracking sediment off-site onto adjacent roadways. A SWPPP also defines proper building material staging and storage areas, paint and concrete washout areas, describes proper equipment/vehicle fueling and maintenance practices, measures to control equipment/vehicle washing and allowable non-stormwater discharges, and includes a spill prevention and response plan.

The preliminary civil plans, prepared by BKF, for the proposed project include an Erosion Control Plan, which proposes stormwater control BMPs that would be implemented during construction, including a stabilized construction entrance, storm drain inlet sediment filters, and sediment filters around the perimeter of the site.

Under existing State law and further enforced by the RWQCB, it is illegal to allow unpermitted non-stormwater discharges to receiving waters. As stated in the Construction General Permit, non-stormwater discharges directly connected to receiving waters or the storm drain system have the potential to negatively impact water quality. The discharger must implement measures to control all non-stormwater discharges during construction, and from dewatering activities associated with construction. Discharging any pollutant-laden water from a dewatering site or sediment basin into any receiving water or storm drain that would cause or contribute to an exceedance of applicable water quality standards is prohibited.

As discussed in the Hazards and Hazardous Materials section, it was revealed concentrations of arsenic were present that exceeded the threshold for safe direct human exposure, and therefore engineering controls to protect workers during construction activities shall be required. Mitigation will be required to be incorporated into the proposed project to ensure protection for workers, nearby residents and surrounding nearby areas with respect to work protection, dust management, and soil disposal to not impact stormwater runoff during site preparation, grading, and construction activities. Implementation of **Mitigation Measure HAZ-1** would address potential impacts related to water quality during construction of the project and reduce any impacts to a level of **less than significant with mitigation of HAZ-1.**

²⁵ State Water Resources Control Board Division of Water Quality - Construction General Permit Fact Sheet.
https://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/constpermits/wqo_2009_0009_factsheet.pdf

Operation Phase. Because the proposed project site would replace over 10,000 square feet of existing impervious surface area, the proposed project would be required to comply with Provision C.3 requirements of the San Francisco Bay Region Municipal Regional Stormwater NPDES Permit (MRP).²⁶ The proposed project would result in alteration of over 50 percent of the existing impervious surface of the project site, and therefore all new and replaced impervious surfaces would require treatment under the MRP. Provision C.3 of the MRP requires implementation of low impact development (LID) source control, site design, and stormwater treatment for regulated projects. LID employs principles such as preserving and recreating natural landscape features and minimizing impervious surfaces to create functional and appealing site drainage that treats stormwater as a resource, rather than a waste product. Practices used to adhere to these LID principles include measures such as rain barrels and cisterns, green roofs, permeable pavement, preserving undeveloped open space, and biotreatment through rain gardens, bioretention units, bioswales, and planter/tree boxes.

The proposed project would include the connection of a new stormwater drainage system on the project site draining to the existing storm drain located within the West Winton Avenue right-of-way. In addition, in accordance with C.3 requirements, the proposed project would include 15 drainage management areas (DMAs) (Stormwater Management Control Plan, BKF) within the project site with associated bio-retention areas. The technical memorandum analysis indicates the post-construction watershed during a 100-year design storm has a stormwater runoff rate of 34.56 cubic feet per second, while the pre-construction watershed for the same 100-year design storm has a stormwater runoff rate of 27.89 cubic feet per second. As the post-construction runoff rate exceeds the pre-construction runoff rate, stormwater detention is required for the project. In order to determine the requisite volume of storm water detention, the post-construction flowrate hydrograph was analyzed while maintaining the pre-construction flowrate. Therefore, bioretention areas will be installed totaling approximately 8,235 square feet using a 12-inch deep section of rain rock with a porosity of 40% below the perforated pipe within the facilities the project is providing 3,294 square-feet of detention. The proposed bioretention areas will adequately detain the necessary 3,101 cubic feet of run-off determined from the 100-year design storm analysis performed.

Required compliance with C.3 requirements of the MRP would ensure that the proposed project would result in a **less-than-significant impact** to water quality during operation of the project.

9b. Would the project Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

²⁶ San Francisco Bay Regional Water Quality Control Board Municipal Regional Stormwater NPDES Permit; https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stormwater/Municipal/

Operation of the proposed project would not involve dewatering or the use of groundwater as potable water, because potable water would be supplied to the proposed development from the existing water main via a new connection along the West Winton Avenue right-of-way and will not involve the use of water wells and will not deplete groundwater supplies or interfere with groundwater recharge; thus, **less than significant impact.**

9c. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

There are no streams or rivers on or within the boundaries of the project site (Hayward GIS WebMap). The infill site is substantially surrounded by ruderal and developed area and run-off water will drain to bioretention and drainage management areas (Stormwater Management Plan, BKF 2018). In addition, the proposed project would be covered under a SWPPP and Stormwater Control Plan by the RWQCB, which must specify how stormwater run-off from the site during and post-construction would be treated and minimized. Therefore, development of the project site as proposed would not substantially change existing drainage patterns or alter existing rivers or streams on-site or in the vicinity resulting in substantial erosion; thus, **less than significant impact.**

9d. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

See Section 9c above. **Less than significant impact.**

9e. Would the project 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?

As stated in Section 9a and 9c, through the implementation of the SWPPP and Stormwater Control Plan the project would include the connection of a new stormwater drainage system on the project to the existing storm drain within the right-of-way. The proposed project will include grading and drainage alteration to redirect stormwater run-off to new drainage management areas and bio-retentions for treatment prior to entering the storm drain infrastructure. As proposed, the DMAs will adequately detain the run off which will prevent capacity exceedance of the drainage systems. The new development will not augment greater run-off than pre-development flow; thus, it will have a **less than significant impact.**

9f. Would the project otherwise substantially degrade water quality?

No substantial construction or operational phase impacts to water quality are expected beyond those discussed above in Sections 9a, 9b and 9c; therefore, additional water quality degradation related impacts are considered **less than significant.**

9g. Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

The project site does not include residential housing component. Further, the project site and area the Hayward Executive Airport parcel is located within Flood Zone “X” outside of the 100-year flood hazard area based on the Flood Insurance Rate Map (FIRM) FEMA Panel Nos. 06001C0286G and 06001C0288G and Figure 9-4 (Flood Areas, 2009) of the General Plan Background Report. Thus, **no impact.**

9h. Would the project place within a 100-year flood hazard area structures which would impede or redirect flood flows?

As stated in Section 9g, the project site is not located within a 100-year flood hazard area which would not impede or redirect flood flows. Thus, **no impact.**

9i. Would the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

Water inundation is a hazard associated with earthquakes that may result from dam failure or a tsunami. While the city does not contain dams or open reservoirs, the potential for water inundation as a result of upstream dam or inundation failure exists, as indicated on the ABAG Dam Failure Inundation Areas map (ABAG, 1995).

The project site is not located within a designated flood zone. Further, the site is not located in proximity to any known dam or levee thus there is **no impact** related to flooding from such a facility (FEMA Flood Map Panel No. 06001C0286G and 06001C0288G, effective August 3, 2009 and Hayward 2040 General Plan Background Report Figure 9-5, Hayward Dam Inundation Areas).

9j. Would the project result in inundation by seiche, tsunami, or mudflow?

The Bay Area does not have a notable history of tsunami occurrences. In 1859 a tsunami generated by an earthquake in Northern California generated 4.6 m wave heights near Half Moon Bay. The Great 1868 earthquake on the Hayward fault is reported to have created a local tsunami in the San Francisco Bay. However, damage from all of these tsunamis has been virtually non-existent and data are extremely limited. Areas in the city most likely to be inundated by water rise from a tsunami include marshlands, tidal flats, and former bay margin lands. There are no published maps or hazard information on seiche hazards in the Bay Area. A minor rise in the Bay resulting from climate change is anticipated, and analysis indicates effects would likely occur in the same areas of the city that would be affected by a tsunami (General Plan Background Report). In addition, the project site is more than a mile away from the San Francisco Bay, relatively flat and generally surrounded by development and would not result in potential mudflows. Therefore, the project would result in **no impact.**

10. <u>LAND USE AND PLANNING</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

10a. Would the project physically divide an established community?

The physical division of an established community typically refers to the construction of a physical feature (such as an interstate highway or railroad tracks) or removal of a means of access (such as a local road or bridge) that would impair mobility within an existing community, or between a community and outlying areas.

The proposed project involves construction and expansion of an existing fire station and training facility located on city-owned airport property abutting the Hayward Executive Airport. Further, the site is surrounded existing development to the east, west, and south with airport operations (runway, tarmac, etc.) located toward the north and as such, will not physically divide an established community; thus, **no impact.**

10b. Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

The proposed project involves the construction and expansion of an existing fire station and fire training facility to include an Aircraft Rescue Firefighting Facility (ARFF) and hazardous materials apparatus facility located on airport property abutting the Hayward Executive Airport. The development is consistent with the development standards, minimum design, and performance standards of the Airport Terminal – Aviation Commercial (AT-AC) zoning district. Further, the

project is consistent with the applicable goals and policies of the Public and Quasi-Public (PQP) land use designation within the Hayward 2040 General Plan. The General Plan anticipated major government facilities (Fire Station #6) including building and landscaping improvements to existing government sites, and the rehabilitation or redevelopment of older facilities to enhance the public services to best accommodate the changing needs of the Hayward community. The proposed project would serve a government facility that will be provide improved and resourceful emergency services to the surrounding areas, especially the Hayward Executive Airport in the event of airport and aircraft related emergencies. Furthermore, the project will serve an educational institution providing training simulations of fires, offering EMT classes, and instructing fire technology courses with a partnership with a local community college, Chabot College, consistent with the goals and policies of such land use designation.

Further, the proposed development is deemed consistent with the following goals and policies of the Hayward 2040 General Plan:

- LU-9.1: Design of City Public Facilities. The City shall ensure that all City-owned facilities are designed to be compatible in scale, mass, and character with the neighborhood, district, or corridor in which they are located.
- CS-4.5: Station Call Volumes and the Reallocation of Resources. The City shall monitor call volumes at individual fire stations to determine if certain areas of the City are in high demand of fire and emergency medical services. The City shall consider reallocating resources or building new fire stations to serve high demand areas.
- CS-4.6: New Fire Stations. The City shall ensure that new fire stations are strategically placed to provide optimum response times throughout the Hayward community.
- CS-4.7: Fire Facilities Master Plan. The City shall develop, maintain, and implement a Fire Department Facilities Master Plan that serves as the long-term plan for providing the Fire Department with state-of-the-art equipment and facilities.
- CS-4.8: Fire and Paramedic Training. The City shall ensure that firefighters and paramedics have access to state-of-the-art training and professional development opportunities.
- PFS-1.1: Capital Improvement Program. The City shall maintain the CIP program to ensure the implementation of the General Plan and the adequate and timely provision of public facility and municipal utility improvements.
- PFS-1.3: Public Facility Master Plans. The City shall maintain and implement public facility master plans to ensure compliance with appropriate regional, State, and Federal laws; the use of modern and cost-effective technologies and best management practices; and compatibility with current land use policy.
- PFS-2.7: Energy Efficient Buildings and Infrastructure. The City shall continue to improve energy efficiency of City buildings and infrastructure through implementation of the Municipal Green Ordinance, efficiency improvements, equipment upgrades, and installation of clean, renewable energy systems.

Thus, the proposed development will result in a **no impact** related to any potential conflicts with applicable land use plans, policies and/or regulations. The project is consistent with all adopted General Plan goals, policies, and adopted documents.

10c. Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?

The City of Hayward does not have an adopted Habitat Conservation Plan or Natural Community Conservation Plan; thus, **no impact.**

11. MINERAL RESOURCES Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

11a. Would the project 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?

The US Geological Survey identified 11 past, present, and prospective mining sites within the City which included a variety of mineral resources including: stone, limestone, clay, fire clay, halite, and salt. The only designated mineral resource sector of regional significance is the La Vista Quarry, located in the area east of Mission Boulevard and Tennyson Road. The quarry is designated as Sector N, a greenstone deposit in the City of Hayward. "Probable" and "potential" resource zones have been designated in the vicinity of the quarry. No other significant aggregate or mineral resources are located in the City. However, all operations at the La Vista Quarry site have been terminated due to the depletion of the accessible aggregable resource. No other significant aggregate or mineral resources are located in the City. As such, there are no known mineral resources on or near the project site; thus, **no impact** (Hayward 2040 General Plan Background Report).

11b. Would the project 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?

See 10.A above. There are no known mineral resources on or near the project site. The proposed project would not result in the loss of availability of any known locally-important mineral resource recovery sites; thus, **no impact** (Hayward 2040 General Plan Background Report).

12. NOISE Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

12a. Would the project 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 applicable standards of other agencies?

The City of Hayward sets noise and land use compatibility standards in the General Plan. The General Plan identifies exterior noise thresholds of up to 75 dBA as normally acceptable for

industrial land uses. In addition, the City of Hayward regulates noise in the City's Municipal Code, Chapter 4, Article 1, Public Nuisances. This ordinance limits noise from commercial or industrial property to no more than 70 dBA at any point outside of the property plane. The ordinance also limits construction and landscaping activities to between the hours of 7:00 a.m. and 7:00 p.m. on Monday through Saturday and between the hours of 10:00 a.m. and 6:00 p.m. on Sundays and holidays, and limits noise levels generated by an individual device or piece of equipment to no more than 83 dBA at a distance of 25 feet from the source, and the noise level at any point outside of the property plane shall not exceed 86 dBA.

An Exterior Noise Assessment was conducted by WSP in December 2017 (Appendix H) to analyze impacts of the existing airport operations onto the proposed expansion for the Fire Station #6 and Training Center. The assessment concluded that baseline noise levels from airport operations were highest associated with diesel engines of single-propeller planes and helicopter flyovers. In addition, the highest ongoing ambient noise levels within the area are related to vehicular traffic along West Winton Avenue. The Hayward DEIR further states that roadway traffic is the most significant source of noise affecting sensitive land uses in Hayward. Freeways and major arterial roadways are the most significant sources of traffic noise. Hesperian Boulevard and West Winton Avenue are roadways in the Planning Area with the greatest modeled traffic-noise levels thereby setting ambient noise levels.

The Hayward Municipal Code limits noise levels generated by an individual device or piece of equipment to no more than 83 dBA at a distance of 25 feet from the source and the noise level at any point outside of the property plane shall not exceed 86 dBA. The project's construction noise levels could result in an exceedance of the City's allowable construction noise levels from construction equipment and could result in a temporary or periodic increase in ambient noise levels in the project vicinity during the development phase. However, implementation of the following standard conditions of approval and best construction management practices would limit construction activities to the less noise-sensitive periods of the day and would reduce construction impacts to a level of **less than significant**.

Construction Noise Standard Conditions of Approval:

- Equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturers' standards.
- Turn off idling noise-generating heavy equipment, vehicles, etc. when not in use.
- Place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the active project site.
- Locate equipment staging in areas that would create the greatest possible distance between construction-related noise sources and noise-sensitive receptors nearest the active project site during all project construction.
- Ensure that all general construction related activities are restricted to between the hours of 7:00 a.m. and 7:00 p.m. on Monday through Saturday and between the hours of 10:00 a.m. and 6:00 p.m. on Sundays and holidays.
- Designate a "disturbance coordinator" at the City of Hayward who would be responsible for responding to any local complaints about construction noise. The disturbance

coordinator would determine the cause of the noise complaint (e.g., starting too early, bad muffler) and would determine and implement reasonable measures warranted to correct the problem, and ensure noise levels do not exceed noise ordinance standards.

Long Term Operational Noise. The proposed project would generate long-term noise impacts from both traffic and stationary noise sources. The Hayward General Plan Table HAZ-1, Exterior Noise Compatibility Standards for Various Land Uses sets exterior noise thresholds of up to 75 dBA as normally acceptable for industrial land uses. As shown in Figure HAZ-1 of the General Plan, the noise levels around project site are approximately are modeled at 65 dBA along West Winton Avenue and 70 dBA along Hesperian Boulevard which is below the City's normally acceptable noise levels for industrial land uses, as stated above.

The proposed project, based on the ITE Trip Generation Manual, would generate approximately 32 PM trips which represents a small fraction of the overall roadway traffic volumes. As such, project daily trips would not result in a perceptible increase in traffic noise levels in the project vicinity and would not expose persons to noise levels in excess of noise standards. In addition, the long-term operation of the facility will create stationary noise sources including HVAC systems, mechanical equipment, garbage collection, public address systems, and typical motor vehicle/parking activities. However, given the location and context of the project site, it is not anticipated that stationary noise sources will create noise beyond ambient levels nor in violation of the HMC. Continued adherence to the standards and decibel limits within the HMC would be consistent with the mitigation measures set forth in the Hayward General Plan and DEIR; thus, reducing impacts to a level **less than significant** for stationary and traffic noise sources.

12b. Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

Vibration refers to groundborne noise and perceptible motion. Groundborne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem outdoors. Vibration energy propagates from a source, through intervening soil and rock layers, to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by the occupants as the motion of building surfaces, rattling of items on shelves or hanging on walls, or as a low-frequency rumbling noise. The rumbling noise is caused by the vibrating walls, floors, and ceilings radiating sound waves. Annoyance from vibration often occurs when the vibration exceeds the threshold of perception by 10 dB or less, an order of magnitude below the damage threshold for normal buildings.

Common sources of ground borne vibration and noise include trains, aircraft landing and taking off, and construction activities such as blasting, pile driving, and operating heavy earthmoving equipment. Construction of the proposed project would involve temporary grading, site preparation, and construction activities that will periodically increase noise levels but would not involve the use of construction equipment that would result in substantial groundborne vibration or groundborne noise on properties adjacent to the project site. Furthermore, operation of the proposed project would not generate ongoing substantial groundborne noise and vibration in the long term operations of the facility beyond the existing ambient noise levels taking into

consideration the Hayward Executive Airport and passing vehicular traffic of passenger and heavy industrial vehicles along West Winton Avenue and Hesperian Boulevard. Therefore, the project impact of the exposure persons to or generation of excessive groundborne noise and vibration and the project impacts would be **less than significant.**

12c. Would the project create a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

As stated in Section 12a above, the project would comply with the City's Noise Ordinance and permitted construction hours to limit the creation of excessive noise beyond the specified decibel ranges during demolition, site grading, and construction activities; however, these activities are not considered permanent in nature nor do they reflect the day-to-day operations of the facility.

The current ongoing operation of the existing fire station facilities currently responds to calls for service and the future calls for services with the facility are not anticipated to substantially increase beyond 10 calls for service a day. The facility will include trainings for cadets, current fire professionals, etc. utilizing constructed training simulation structures which may generate noise; however, these structures are proposed to be setback significantly from the rights-of-way closer to the airport landing strip which will limit potential noise exceeding ambient levels beyond that of airport operations and passing vehicular traffic along West Winton Avenue and Hesperian Boulevard. Therefore; the project will have **less than significant impact** in creating a substantial permanent increase in ambient noise levels in the project vicinity.

12d. Would the project create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Although there would be temporary high intermittent construction noise at times in the project area during project construction, implementation of the City's standard conditions of approval and best construction management practices would ensure construction of the proposed project would not significantly affect land uses adjacent to the project sites. In addition, construction of the project would comply with the hourly limits specified by the City's Public Nuisance Code.

The project itself will include the expansion of an existing fire station facility which currently involves and will continue to include routine and semi-frequent calls for service or training which may require the use of an amplified alarm for emergency services. As stated above, calls for service out of Fire Station #6 are anticipated at a maximum of 10 times a day which would limit the noise impact on adjacent businesses, residences, etc. and are not anticipated to last longer than 3-5 minutes leaving the facility. Therefore, the project would not result in a substantial temporary or periodic increase in ambient noise levels and would be considered **less than significant.**

12e. 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 expose people residing or working in the project area to excessive noise levels?

The project site is located on city-owned airport property abutting the Hayward Executive Airport where the Hayward Executive Master Plan and Hayward Executive Airport Land Use Compatibility Plan have been adopted as part of the regulating and long-range documents for the airport and surrounding development.

WSP reviewed the project plans and the proposed occupied facilities with their Exterior Noise Assessment, specifically the glass thickness and glazing, and confirmed that the current selections are appropriate for all skylights and clerestories in Building 1 which will contain classrooms, training, etc. Therefore, the buildings do not require any further mitigation from the noise impacts of the airport.

In addition, the City of Hayward has adopted Chapter 2, Article 6²⁷ which include the minimum standards for the Hayward Executive Airport to encourage, promote, and ensure the design and development of quality general aviation improvements and facilities at the Airport, safety and security, and the orderly development of airport properties. Within this Code includes specific aircraft noise restrictions for incoming and outgoing aircrafts to minimize any potential adverse impacts on nearby businesses, residents, property owners, etc. Section 2-6.120 (Aircraft Noise Limits) of the HMC stipulate the following limitations on noise associated with aircrafts:

- a. No aircraft may take off, land or otherwise operate at the Airport between the hours of 7:00 a.m. and 11:00 p.m. if it generates a Single Event Noise Exposure Level (SENEL) which exceeds the following values as measured at any one (1) of the Airport's four (4) Noise Monitoring Terminals (NMT):

Runways 28L/28R:	Runways 10R/10L:
NMT #1 98	NMT #1 98
NMT #2 98	NMT #2 98
NMT #3 98	NMT #3 100
NMT #4 98	NMT #4 99

- b. No aircraft may take off, land or otherwise operate at the Airport at night between the hours of 11:01 p.m. and 6:59 a.m. if it generates a Single Event Noise Exposure Level (SENEL) which exceeds the following values as measured at any one (1) of the Airport's four (4) Noise Monitoring Terminals (NMT):

²⁷ Hayward Executive Airport Noise Restrictions;
https://library.municode.com/ca/hayward/codes/municipal_code?nodeId=HAYWARD_MUNICIPAL_CODE_CH2GOAD_ART6HAEXAICO_HAEXAICOAINORE

Runways 28L/28R:	Runways 10R/10L:
NMT #1 95	NMT #1 95
NMT #2 95	NMT #2 95
NMT #3 95	NMT #3 97
NMT #4 95	NMT #4 96

It is presumed an aircraft noise violation if between the hours of 7:00 a.m. and 11:00 p.m., any aircraft which exceeds 77 on the dBA scale on take-off as listed in the FAA Advisory Circular 36-3F, or between the hours of 11:01 p.m. and 6:59 a.m., any aircraft which exceeds 73 on the dBA scale on take-off as listed in the FAA Advisory Circular 36-3F. Upon a violation of any provision of the Aircraft Noise Restrictions within a three-year period, a citation may be issued and the violator shall be subject to an order imposing a civil penalty which may be a fine, a suspension of airport privileges or permits, or both.

Therefore, adherence to the City’s municipal code of incoming and outgoing aircrafts will reduce the exposure of excessive noise levels of people working or residing in the project area to a level **less than significant.**

12f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

As stated in Response 12e, the project site is located on city-owned property that abuts the Hayward Executive Airport. The Noise Assessment conducted by WSP concludes no further mitigation is required for the buildings to reduce the impacts from airport operations. Further, the Hayward Municipal Code that includes restrictions of permitted noise levels from incoming and outgoing aircraft to reduce the exposure of excessive noise levels to people residing or working near the project area. The proposed fire station, training center, and ARFF would be susceptible to noise generated by the Hayward Executive. However, continued adherence from pilots and aircrafts to the noise restrictions will reduce any potential environmental impact to **less than significant.**

<u>13. POPULATION AND HOUSING</u> Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Induce substantial 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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

13a. Would the project induce substantial 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)?

The proposed project involves the expansion of an existing fire station facility and training center which will be able to provide additional public safety and educational services to serve the city and regional community. However, the project would not induce substantial population growth either directly or indirectly and is consistent with the Hayward 2040 General Plan. Further, the project site is located within Zone 1 (Runway Protection Zone) and Zone 2 (Inner Approach and Inner Departure Zone) according the Hayward Executive Airport Land Use Compatibility Plan (ALUCP), where residential land uses are not compatible or permitted for development. Thus, **less than significant impact.**

13b. Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

See Comment 13a. The project involves the construction of a public/quasi-public fire station facility and training facility and would thus not involve displacement of any existing housing stock. Further, as noted above, given the proximity and location of the project site to the airport – the site is not deemed compatible with residential land uses. Thus, **no impact.**

13c. Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

See Comment 13a. The project involves the construction of a public/quasi-public fire station facility and training facility and would thus not involve displacement of any existing housing stock. Thus, **no impact.**

14. PUBLIC SERVICES 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:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Fire Protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

14a. Fire Protection?

The proposed project includes the expansion of the existing City of Hayward Fire Station #6 which will provide increased fire protection courses, simulation training, staff resources, and additional emergency services within the City and to the Hayward Executive Airport. The Hayward Fire Department provides fire, paramedic, advanced life support/emergency medical services, and emergency to all areas within City limits. In addition, the upgraded and expanded fire station and ARFF will provide convenient, quick, and accessible services to support the Hayward Executive Airport in the event of on an emergency. As needed, the expanded fire station, fire training center, and ARFF will provide support services to other areas of the City and regionally that may require assistance. The project is consistent with the site's General Plan of the PQP land use designation and does not represent unplanned growth given that the project site would be developed consistent with its land use and zoning designations. Thus, **no impact.**

14b. Police protection?

Although the expansion and development of the upgraded fire station and fire training facility of the partially vacant underutilized portion of the site would incrementally increase the demand for police services, the proposed project would not require the construction or expansion of police protection facilities beyond those already planned under the General Plan assumptions. The Hayward Police Department (HPD) would continue to provide services, as needed, to the project site and would not require additional officers to serve the project site. Thus, the proposed development will have a **less than significant** impact related to police protection.

14c. Schools?

The proposed development will not include the construction of any residences that will impact or create a demand for educational facilities (elementary, middle, or high schools) under the jurisdiction of the Hayward Unified School District (HUSD). Thus, **no impact**.

14d. Parks?

The proposed development does not include the construction of any residences that will generate a demand for additional park amenities. Therefore, it will not be subject to the payment of park dedication in-lieu fees or dedication of parkland pursuant to Chapter 10, Article 16 of the Hayward Municipal Code (Property Developers – Obligations for Parks and Recreation); **no impact**.

14e. Other public facilities?

The proposed project site is infill and surrounded by development including roads, streetlights and other public facilities. The proposed project include the expansion of an existing government facility will not result in a need for public facilities such as libraries, community centers, etc. beyond those already planned under General Plan assumptions. Thus, the proposed project impacts are considered **no impact** related to other public facilities.

15. RECREATION	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

15a. 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?

The proposed development involves the construction of a public/quasi-public fire station and fire training facility which will result in no net increase of the demand for or use of existing neighborhood and recreation parks, or other recreational facilities such that substantial physical deterioration of the facility would be accelerated, thus **no impact.**

15b. 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?

See 15a comment above. **No impact.**

16. TRANSPORTATION AND TRAFFIC Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

16a. Would the project conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

The proposed project includes the physical and operational expansion of an existing fire station and training center facility to include a Regional ARFF, additional training simulation structures, and classrooms for fire cadets, current fire prevention professionals, and students of Chabot College. Although the site acreage and floor area of the project site will be increased, the proposed expansion of the facility is not anticipated to generate a substantial number of additional trips beyond what exists today that cannot be accommodated on the existing roadway networks utilizing Hesperian Boulevard and West Winton Avenue. The Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition provides a detailed description of new urban and person-based trip data and projected common trip generation rates based on land uses. The Trip Generation Manual states “Fire and Rescue Stations” (Code 575) generate 0.48 PM trips per 1,000 square-feet of gross floor area (GFA). Based on the proposed development and expansion of the existing fire station to include 66,278 square-feet of floor area, the project will generate 32 PM trips which will not impact the effectiveness of the existing roadway network of the surrounding area.

As part of the project scope, the project will include the construction of a new deceleration lane along West Winton Avenue that will provide quick and convenient access to accommodate the turning radii for fire engines and apparatuses returning to the fire station to not impede on the flow of regular traffic along the street. The deceleration lane will lead to a proposed private access road on the project site, known as Manzella Road, that will be used to traverse the fire station campus. The lane may also be used by visiting patrons, trainees, students, etc. utilizing the eastern parking lot to minimize vehicle congestion and back-up attempting to enter at the Saklan Road entrance.

Utilization of classes, events, and local/regional trainings outside of the standard daily operations of the fire station facility will be coordinated and staggered to ensure minimization of over congestion onto the project site. The fire station will continue to be utilized on a daily basis to respond for calls for service within the City limits consistent with its current operations. Project impacts would not conflict with applicable plans, ordinances, and/policies establishing measures for effectiveness for the performance of circulation systems including, but not limited to intersections, streets, highways, and freeways and are considered **less than significant**.

16b. Would the project conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Alameda County Transportation Commission (ACTC) is responsible for establishing, implementing, and monitoring the County's Congestion Management Program²⁸. Through its implementation of the CMP, the ACTC aims to ensure that the roadways of the CMO operate at an acceptable level of service and reviews development proposals to ensure transportation impacts are minimized.

The project site is located east of the Interstate 880 Freeway, north of State-Route 92, and west of Hesperian Boulevard which are designated as CMP roadways. As indicated in 16a) above, the expansion of the existing fire station and training center facility will generate 32 PM trips which does not constitute a substantial increase of traffic onto the existing roadway network that cannot be accommodated. Therefore, the project is not expected to conflict with the applicable congestion management program and the impact would be considered **less than significant**.

16c. Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

As stated in Hazards and Hazardous Materials Sections 8e and 8f, the proposed project has received Form 7460 clearances from the Federal Aviation Administration (FAA) for the development and expansion of the fire station, training center and ARFF. The proposed project will not require nor impact air traffic patterns; thus, **no impact**.

16d. Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The proposed project will include the construction and improvements of two right-turn deceleration lanes along West Winton Avenue. The deceleration lanes will assist in allowing traffic to slow down for upcoming turns into the fire training facility and fire station parking lot along Manzella Road and Saklan Road. As such, the increased hazards due to design are considered **less than significant**.

16e. Would the project result in inadequate emergency access?

The proposed project includes the construction of a fire station and training center, which will include improve emergency services and response times by the City of Hayward Fire Department in the event of an emergency. In addition, the ARFF will have a direct path of access to the airport terminal, runway and tarmac in the event of an airport related emergency that warrants the usage of the aircraft rescue firefighting facility. The proposed development will also retain access along West Winton Avenue, with right-turn deceleration lanes entering the eastern and western parking lots (on either side of Pacific Roller Die Company) to obtain effect access to the project site. The project site will also utilize the existing extended curb cut and traffic signal at Saklan Road to

²⁸ Alameda County Congestion Management Program; https://www.alamedactc.org/app_pages/view/5224

provide adequate access to the project site along the western edge of the project boundary. Thus, **less than significant impact**.

16f. Would the project conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

The project site currently maintains pedestrian access from West Winton Avenue utilizing the existing sidewalks present at the southern side of street. The northern side of the street along the project frontage exhibits spotted areas where sidewalks are present. The development of the fire station will include the installation of sidewalks compliant with City standard along project frontage continuous from the proposed eastern parking lot to Saklan Road which will include landscaping and lighting fixtures along the street to improve walkability of visiting patrons.

The City's adopted Bicycle Master Plan (2007)²⁹ identifies West Winton Avenue as a Class III bicycle route. A pavement rehabilitation project is anticipated for West Winton Avenue that includes a new bike lane along the southern side of the street. Aside of the connections to utilities within the existing right-of-way, the proposed project would not conflict with the pavement repair and creation of the new bike lane.

Existing bus and public transit services will not be impeded. Currently, AC Transit maintains routes #83, 86, 386 and S (Transbay) that provide service along adjacent streets including West Winton Avenue, Clawiter Road, and Hesperian Boulevard that include stops within close proximity of the project site. Each of these existing lines will be to accommodate any anticipated capacity as a result of the project.

As such, the project is consistent with the existing and planned pedestrian, bicycle, and transit facilities and the implementation of the development would not conflict with any policies, plans, or programs regarding bicycle or pedestrian facilities, and the impact would be considered **less than significant**.

²⁹ City of Hayward Bicycle Master Plan. 2007 <https://www.hayward-ca.gov/sites/default/files/Hayward%20Bicycle%20Master%20Plan%202007.pdf>

<p><u>17. TRIBAL CULTURAL RESOURCES</u></p> <p>Would the project 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:</p>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p>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</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>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.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

17a. 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

The project site is not located within the immediate vicinity of a site, feature, place, cultural landscape that is listed or eligible for listing in the California Register of Historical Resources, or on the local register. Based on the Hayward GIS Webmap and 2010 City of Hayward Historical Resources Survey and Inventory Report (2010, Circa: Historic Property Development), there are no surveyed or identified historical resources within the immediate vicinity of the project site. The web-based GIS map indicates that the closest City historical resource designated on the Local Register is located at 21800 Hesperian Boulevard, more than half-mile away fronting Hesperian Boulevard. In addition, the Historical Resources Survey and found that there are no known California Historical Landmarks or California Points of Historical Interest within the Hayward city limits. Thus, the proposed development will have a **less than significant impact**.

17b. 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.

Assembly Bill (AB) 52, which came into effect on July 1, 2015, requires that lead agencies consider the effects of projects on tribal cultural resources and conduct notification and consultation with federally and non-federally recognized Native American tribes early in the environmental review process. According to AB 52, it is the responsibility of the tribes to formally request of a lead agency that they be notified of projects in the lead agency's jurisdiction so that they may request consultation.

As of the publication of this Initial Study, only one tribe, the Ione Band of Miwok Indians, has formally requested to be notified of projects within the City of Hayward. The City notified the tribe of the proposed project, in writing, on March 8th, 2018 (Appendix I). According to AB 52, the tribe had 30 days from the receipt of the letter to request consultation with the City; no request for formal consultation was received by the City from the tribe within this 30-day period or after. Therefore, the City's responsibility and obligation to comply with AB 52 is complete.

Further, the project site is presently developed with buildings and a parking lot and no tribal cultural resources are known to be present on the site. With respect to archaeological resources and human remains that may be present beneath the development, standard conditions of approval (see Cultural Resources Sections 5a and 5d) will be incorporated into the project to ensure that should these resources be present, they will be protected from damage and properly evaluated consistent with the City's General Plan Policy NR-7.2. The standard condition of approval will require that if potentially culturally significant remains, objects, etc. be uncovered during construction and/or grading, that all work shall halt, and the City of Hayward Development Services Department shall be notified immediately for further evaluation. For this reason, the proposed project is not expected to cause a substantial adverse change in the significance of tribal cultural resources, and this impact is considered **less than significant**.

18. UTILITIES AND SERVICE SYSTEMS Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

18a. Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Water quality in the State of California is regulated by the State Water Resources Control Board (State Water Board) and the nine Regional Water Quality Control Boards. The City of Hayward is located in the jurisdiction of the San Francisco Bay Regional Water Quality Control Board (RWQCB). Section 303(d) of the Federal Clean Water Act (CWA) requires that states identify water bodies including bays, rivers, streams, creeks, and coastal areas that do not meet water quality standards and the pollutants that are causing the impairment Total Maximum Daily Loads (TMDLs) describe the maximum amount of a pollutant that a water body can receive while still meeting established water quality standards. A TMDL requires that all sources of pollution and all aspects of a watershed's drainage system be reviewed and set forth action plans that examine factors and sources adversely affecting water quality and identify specific plans to improve overall water quality and reduce pollutant discharges into impaired water bodies.

The proposed project includes the construction and expansion of an existing fire station and training center located at the Hayward Executive Airport. The City of Hayward owns and operates its wastewater collection and treatment system that serves nearly all the residential, commercial, and industrial users within the incorporated City limits. The City is responsible for collection and treatment of wastewater within the community and the East Bay Dischargers Authority (EBDA) is responsible for disposal of the treated wastewater. Wastewater is collected and transported via underground sewer lines to the City of Hayward Water Pollution Control Facility (WPCF) located at the terminus of Enterprise Avenue in western Hayward.

The proposed project would generate domestic wastewater associated with sinks and toilets to serve the employees at the proposed project, which would be treated by the WPCF. Planned growth under the General Plan would increase the collection and treatment of wastewater. The project is consistent with the City's General Plan land use designation and does not represent unplanned growth given that the project site would be developed consistent with its land use and zoning designations. Therefore, the City has sufficient capacity to serve the proposed project. Since the WPCF is considered a publicly-owned treatment facility, operational discharge flows treated at the WPCF would be required to comply with applicable water discharge requirements issued by the Regional Water Quality Control Board (RWQCB). Compliance with conditions or permit requirements established by the City as well as water discharge requirements outlined by the RWQCB would ensure that wastewater discharges coming from the project site and treated by the WPCF system would not exceed applicable RWQCB wastewater treatment requirements. Therefore, the project would have a **less-than-significant** impact associated with waste water treatment and no mitigation is required.

18b. Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Wastewater treatment for the City of Hayward is provided by the WPCF treatment plant and the wastewater collection system is maintained by the City. A sewer main is located within the West

Winton Avenue right of way (Project Civil Plans) and would serve the project site via a new connection. The new sanitary sewer line would be constructed in conformance with City standards, and its construction would not cause significant environmental effects.

The project is consistent with the General Plan land use designation of Public and Quasi-Public and does not represent unplanned growth given that the project site would be developed consistent with its land use and zoning designations. The EIR prepared for the General Plan concluded there is adequate water supply available to serve anticipated growth. The proposed project would not require the construction of new water treatment facilities, or the expansion of existing facilities; however, the proposed project would include a new connection via the existing distribution main located within the West Winton Avenue right of way. The proposed project would connect directly to existing mains, which have sufficient capacity to accommodate the proposed project. Therefore, the impact of the proposed project on water infrastructure would be **less than significant**.

18c. Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

As noted in 18.b above, the proposed project would include new connections and upgrades to existing stormwater infrastructure on the project site and include the construction of new biotreatment areas on-site. Development of the proposed project would increase impervious surfaces on the site. As such, the proposed project would result in an increase in stormwater runoff. The proposed project would include the connection of a new stormwater drainage system on the project site draining to the existing storm drain located within the West Winton Avenue right-of-way. In addition, the proposed project would include 15 drainage management areas (DMAs) (Stormwater Management Control Plan, BKF) within the project site with associated bio-retention areas totaling approximately 8,235 square feet using a 12-inch deep section of rain rock with a porosity of 40% below the perforated pipe within the facilities providing 3,294 square-feet of detention. The proposed bioretention areas will adequately detain the necessary 3,101 cubic feet of run-off determined from the 100-year design storm analysis performed. The new stormwater system must comply with all applicable regulations and would not represent an expansion of facilities such that significant environmental effects would occur; therefore, this impact would be **less than significant**. See Hydrology and Water Quality section for additional information and analyses.

18d. Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

The City of Hayward provides water for residential, commercial, industrial, governmental, and fire suppression uses. The City owns and operates its own water distribution system and purchases all of its water from the San Francisco Public Utilities Commission (SFPUC). Emergency water supplies are available through connections with Alameda County Water District and East Bay Municipal Utility District (EBMUD) in case of disruption of delivery from SFPUC. The City's

2015 Urban Water Management Plan describes the existing and planned sources of water available in the water system service area over the next 20 years, in 5-year increments.³⁰

As described above, the City would have sufficient water supply to support the proposed project and implementation of the project would not require new or expanded entitlements for water supplies, and impacts related to water supply would be **less than significant**.

18e. Would the project 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?

Wastewater treatment for the City of Hayward is provided by the WPCF treatment plant and the wastewater collection system is maintained by the City. The proposed project would connect to the existing sewer main within the right-of-way which would serve the project and result in a minor contribution to the daily permitted capacity of the wastewater treatment plant and would not exceed the plant's capacity. Therefore, impacts related to the capacity of the existing wastewater treatment plant would be **less than significant**.

18f. Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

The City of Hayward provides weekly garbage collection and disposal services through a Franchise Agreement with Waste Management, Inc. (WMI), a private company. WMI subcontracts with a local non-profit, Tri-CED Community Recycling, for residential collection of recyclables. Altamont Landfill is the designated disposal site in the City's Franchise Agreement with WMI.³¹

In February 2012, the Hayward City Council approved mandatory recycling for all businesses and multi-family developments with 4 cubic yards or more of weekly garbage service to have recycling services. Recyclables required for collection include a variety of types of paper, recyclable food and beverage containers made of glass and metal, and plastic bottles. In addition, Chapter 5, Article 10 of the Hayward Municipal Code requires that applicants for all construction and demolition projects that generate significant debris recycle 100 percent of all asphalt and concrete and 50 percent of remaining materials. Through these measures, the City plans to meet the State-wide diversion goal of 75 percent by 2020.

Based on the CalRecycle Solid Waste Generation Rates³² for government land uses, the proposed project would generate approximately 53.1 tons of solid waste per year. The Altamont Landfill processes approximately 1,500,000 tons of solid waste per year and has a remaining permitted capacity of 42.4 million tons. Given the available capacity at the landfill, the additional solid waste generated by the proposed project is not anticipated to cause the facility to exceed its daily

³⁰ City of Hayward, Urban Water Management Plan; www.hayward-ca.gov/documents/2015-urban-water-management-plan-0

³¹ Altamont Landfill and Resource Recovery Facility; www.wmsolutions.com/pdf/factsheet/Altamont_Landfill.pdf

³² CalRecycle Solid Waste Generation Rates; www2.calrecycle.ca.gov/WasteCharacterization/General/Rates

permitted capacity. Further, the implementation of the City's recycling programs would further reduce solid waste generation and would ensure there is sufficient capacity to accommodate the proposed project at the Altamont Landfill. As such, the project would be served by a landfill with sufficient capacity to accommodate the project's waste disposal needs, and impacts associated with the disposition of solid waste would be **less than significant**.

18g. Would the project comply with federal, state, and local statutes and regulations related to solid waste?

The proposed project would be required to comply with all federal, State, and local regulations related to solid waste. Furthermore, the proposed project would be required to comply with all standards related to solid waste diversion, reduction, and recycling during project construction and operation of the project. Standard conditions of approval will be included into the project which refer to local ordinances and diversion, recycling requirements. Therefore, the proposed project is anticipated to result in **less than significant** impacts related to potential conflicts with federal, State, and local statutes and regulations related to solid waste.

<u>19. MANDATORY FINDINGS OF SIGNIFICANCE</u>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to 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, 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

19a. Does the project have the potential to 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, 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?

Implementation of Mitigation Measures BIO-1 would ensure that potential impacts related to required tree mitigation would be reduced to less-than-significant levels. Therefore, with the incorporation of mitigation measures, development of the proposed project would not: 1) degrade the quality of the environment; 2) substantially reduce the habitat of a fish or wildlife species; 3)

cause a fish or wildlife species population to drop below self-sustaining levels; 4) threaten to eliminate a plant or animal community; 5) reduce the number or restrict the range of a rare or endangered plant or animal; or 6) eliminate important examples of the major periods of California history. Therefore, this impact would be **less than significant**.

19b. 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)?

The proposed project's impacts would be individually limited and not cumulatively considerable due to the site-specific nature of the potential impacts. The potentially significant impacts that can be reduced to a less-than-significant level with implementation of recommended mitigation measures including the topics of biological resources, geology and soils, hazards and hazardous materials, and hydrology and water quality. These impacts would primarily be related to construction-period activities, would be temporary in nature, and would not substantially contribute to any potential cumulative impacts associated with these topics.

For the topic of biological resources, implementation of Mitigation Measures BIO-1 would ensure that impacts to tree removal and preservation are reduced to a less-than-significant level.

For the topic of geology and soils, implementation of Mitigation Measure GEO-1 would require that the recommendations and mitigations set forth within the Final Geotechnical Report be incorporated into the construction level and improvement plans.

For the topic of hazards and hazardous materials, implementation of Mitigation Measure HAZ-1 would address the potential for subsurface impacts from hazardous materials to significantly impact human health or the environment and reduce the impact to a less-than-significant level.

Implementation of these measures would ensure that the impacts of the project would be below established thresholds of significance and that these impacts would not combine with the impacts of other cumulative projects to result in a cumulatively considerable impact on the environment as a result of project development. Therefore, the cumulative impact would be **less than significant with mitigation**.

19c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

The proposed project's potential to result in environmental effects that could directly or indirectly impacts human beings have been evaluated in this Initial Study. With implementation of the recommended mitigation measures, all environmental effects that could adversely affect human beings would be **less than significant**.

SOURCES

1. Professional Judgement and Expertise of The Individual That Prepared This Initial Study Based Upon Review If the Site and Surrounding Conditions and Project Plans
2. Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.
3. Bay Area Air Quality Management District Updated CEQA Guidelines, <http://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines>, accessed September 2018.
4. City of Hayward 2040 General Plan Draft Environmental Impact Report 2014
5. City of Hayward 2040 General Plan Background Report, January 2014
6. City of Hayward Geographic Information Systems (<http://webmap.hayward-ca.gov/>)
7. City of Hayward Hillside Design and Urban/Wildland Interface Guidelines
8. City of Hayward Municipal Code
9. FEMA Flood Map Panels August 3, 2009. FEMA Flood Map Service Center: Search by Address. <http://msc.fema.gov/portal/search>, accessed on May 2018
10. Google Earth
11. State of California, Department of Conservation, Regulatory Maps. <http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>, Accessed on May 2018
12. State of California's Department of Toxic Substances Control's Envirostor Webpage (<http://www.envirostor.dtsc.ca.gov/public/search.asp?basic=True>, Accessed August 2018.
13. State of California, Department of Transportation, Scenic Highway Routes, http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/scenic_hwy.htm, Accessed August 2018.
14. State of California Department of Conservation, California Important Farmland Finder, Accessed July 2018. <http://maps.conservation.ca.gov/ciff/ciff.html>

LIST OF APPENDICES

- A. Project Plans
- B. Arborist Report
- C. Geotechnical Report
- D. Phase 1 Environmental Site Assessment
- E. Preliminary Soil Sampling and Soil Management Plan
- F. Federal Aviation Administration 7460 Form Clearances
- G. Preliminary Stormwater Control Plan
- H. Noise Assessment
- I. AB 52 Tribal Notification Letter

**CITY OF HAYWARD
DEVELOPMENT SERVICES DEPARTMENT
MITIGATED NEGATIVE DECLARATION**



Notice is hereby given that the City of Hayward finds that the proposed project described in detail below would not have a significant effect on the environment as prescribed by the California Environmental Quality Act of 1970, as amended:

I. PROJECT DESCRIPTION:

Title: Fire Station #6 and Fire Training Center
Site Plan Review Application No. 201703717

Description: The proposed project includes an application for Site Plan Review (SPR) for the construction of the Hayward Fire Station No. 6 and Regional Airport Rescue and Firefighting (ARFF) and Fire Training Center. The proposed project will include the demolition of the four (4) existing structure approximately 18,000 square-foot of building area and the construction of nine (9) structures including the fire station/classroom building, apparatus building, hangar building, training tower, burn building, outdoor classroom, entry canopy, etc. The project includes the construction of approximately 66,278 square-feet of building area.

The project will include the construction of Leadership in Energy and Environmental Design (LEED) Certified structures. In addition to the development of the primary structure, the project will also include the associated on- and off-site improvements including site grading, utility connections, new landscaping and vegetation, installation of storm water management features and bio-retention areas, surface paving and parking areas, and deceleration lanes for secondary access along West Winton Avenue for emergency vehicles and patron parking.

The proposed project will primarily serve as an expansion of the existing fire station services and trainings to provide efficient and improved emergency services for the Hayward Executive Airport as needed. Anticipated operations of the Hayward Fire Station, Regional ARFF, and Fire Training Center will include the following services, classes, and operations:

- Fire station responding to an average of ten (10) emergency calls daily;
- Classroom/drill ground training for 12-14 City firefighters and 1-3 instructors daily;
- Classroom/drill ground training for 15-48 City firefighters and 1-3 instructors monthly;
- Fire training academy for 6-12 cadets with 1-12 instructors of 18 weeks yearly;
- Regional fire training and symposium yearly; and
- Chabot College EMT, fire technology, fire academy classes.

Location: 1401 West Winton Avenue, Assessor Parcel No. 425-0410-026-00

Approvals: Site Plan Review

Development Services Department

Planning Division

777 B Street, Hayward, CA 94541

T: 510.583.4200

F: 510.583.3649

TTD: 510.247.3340

www.hayward-ca.gov



II. FINDING PROJECT WILL NOT SIGNIFICANTLY AFFECT ENVIRONMENT:

The proposed project, with the mitigation measures included in the Initial Study and Mitigation Monitoring and Reporting Program (MMRP) prepared for this project, will not have a significant effect on the environment.

III. FINDINGS SUPPORTING DECLARATION:

1. The proposed project has been reviewed according to the standards and requirements of the California Environmental Quality Act (CEQA) and an Initial Study Environmental Evaluation Checklist has been prepared for the proposed project. The Initial Study has determined that the proposed project, with the recommended mitigation measures, could not result in significant effects on the environment.
2. The project was found to have either no impact or less than significant impacts in the areas of Aesthetics, Agricultural Resources, Air Quality, Cultural Resources, Greenhouse Gas Emissions, Hydrology or Water Quality, Land Use, Mineral Resources, Noise, Population and Housing, Public Services, Recreation, Transportation and Traffic, Tribal Cultural Resources and Utilities and Service Systems.
3. The project could result in impacts related to Biological Resources, Geology and Soils, and Hazards and Hazardous Materials due to proposed trees to be removed, location of the project site, and existing soil conditions. However, impacts to the environment may be reduced to a level less than significant if the development mitigates to the appraised value of the trees to be removed and incorporates the proposed recommendations and mitigations in the Geotechnical Report for site preparation, grading, fill placement, foundations, seismic design, etc. and the Soil Management Plan for construction and field practices.
4. With regard to the Mandatory Findings of Significance, the proposed project could result in impacts that could cause an adverse effect on human beings as described above and in the attached Initial Study; however, those impacts can be mitigated to a level of less than significant as described above and in the Initial Study.

IV. PUBLIC NOTICE AND PUBLIC HEARING

The specific posted comment period for this environmental document is from Monday, October 1, 2018 to Monday, October 22, 2018 at 5:00 p.m.

This item is scheduled for a public hearing before the Planning Commission of the City of Hayward on Thursday, October 25, 2018, at 7:00 p.m., Council Chambers, 2nd Floor, City Hall, 777 B Street, Hayward, to obtain citizen input on the proposed project and the Initial Study and Mitigated Negative Declaration (IS/MND). A copy of the staff report can be viewed on the City's website at www.hayward-ca.gov after October 19, 2018. The Planning Commission will be the decision-making body, unless otherwise appealed to or called-up by the City Council. The Planning Commission will review the project and adopt the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the development.

V. LEAD AGENCY REPRESENTATIVE AND PERSON WHO PREPARED THE INITIAL STUDY:



Marcus Martinez, Assistant Planner

10/1/18

Date

VI. CONTACT INFORMATION

For additional information, please contact Marcus Martinez, Assistant Planner at the City of Hayward Planning Division at 510-583-4236.

Written comments may be sent to Marcus Martinez via email at marcus.martinez@hayward-ca.gov or at City of Hayward Planning Division, 777 B Street, Hayward, CA 94541.

VII. COPY OF ENVIRONMENTAL CHECKLIST

Copies of the Initial Study and Mitigated Negative Declaration are available for public review at Hayward City Hall, at 777 B Street, Hayward on the First-Floor Permit Center, Monday through Thursday from 8 a.m. to 5 p.m.; at the Weekes Branch Library located at 27300 Patrick Avenue in Hayward, and on the City's website at <http://www.hayward-ca.gov/content/projects-under-environmental-review-0>. Please see the Library and Community Services webpage at <http://www.library.ci.hayward.ca.us/> for library days and hours.



Hayward Fire Training Facility Tree Evaluation and Construction Impact Assessment Hayward, CA

PREFACE

This report is an evaluation of trees located within the proposed development area of the Hayward Fire Training Facility. The purpose of this evaluation is to assess the health and structural condition of trees occurring on the site and to provide a value for trees that qualify as 'protected' trees under the city of Hayward Tree Preservation Ordinance Chapter 10 Article 15.

James MacNair, principal of MacNair and Associates, ISA Certified Arborist WE-0603A, and ISA Qualified Tree Risk Assessor prepared this evaluation and report.

September 14, 2017

Unless expressed otherwise, the information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection. The inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the trees in questions may not arise in the future.

Table of Contents

Hayward Fire Training Facility- Tree Evaluation and Construction Impact Assessment

Assignment..... 1
Site Description 1
Tree Species Discussion..... 1
Construction Impact..... 1
Tree Valuation 2
Individual Tree Evaluations (Datum Descriptions) 2
Site/Tree Images 4-15

Appendix A- Tree Evaluation and Construction Impact Matrix..... Attached
Appendix B- Tree Valuation..... Attached
Appendix C- Tree Locations and Numbering Aerial..... Attached

Assignment:

This report is an evaluation of trees located within the proposed development area of the Hayward Fire Training Facility. The purpose of this evaluation is to assess the health and structural condition of trees occurring on the site and to provide a value for trees that qualify as 'protected' trees under the city of Hayward Tree Preservation Ordinance Chapter 10 Article 15.

The evaluated trees are numbered with tree locations shown on the attached aerial map. Twenty-seven (27) trees are individually evaluated as part of this report with all of the trees located within the project construction limits and along the street frontage. Appendix A is the individual tree data matrix that provides the specific tree description information and construction impact assessment.

Site Description:

The site is located 1401 West Winton Avenue in Hayward adjacent to the Hayward Municipal Airport. The project site is currently a fire department training facility that is being renovated and expanded to include new buildings and parking lots. The topography is flat and all of the trees are part of an existing landscape.

Tree Species Descriptions:

The 27 trees consist of seven species including three (3) bronze loquat (*Eriobotrya deflexa*), one (1) English walnut (*Juglans regia*), three (3) ginkgo (*Ginkgo biloba*), eight (8) Italian stone pine (*Pinus pinea*), nine (9) London plane tree (*Platanus x acerifolia* 'Bloodgood'), one (1) Shamel ash (*Fraxinus uhdei*), and two (2) willows (*Salix laevigata*).

Detailed descriptions of the trees are provided in Appendix A of this report. The majority of the trees are in moderate health. The exceptions are the willows, Shamel ash, and four of the London plane trees are in poor to marginal health due to decay in the willows and drought stress impacting the ash and plane trees.

There is variability in structure ratings with the multiple trunk Italian stone pines having trunk attachment defects typical of this species, the willows having significant trunk decay, and the ash having included limb attachments.

The Tree Preservation Ordinance defines 'protected trees' as "trees having a minimum trunk diameter of eight inches measured 54 inches above the ground. When measuring a multi-trunk tree, the diameters of the three largest trunks shall be added together." All of the evaluated trees meet the criteria for 'protected' tree status.

Construction Impact:

The construction plans indicate that removal of all the trees is required. Consequently, no tree protection procedures or recommendations are necessary for the on-site trees. However, the trees on the adjacent site to the west consists of mature stature Canary Island pines (*Pinus canariensis*) and Monterey pines (*Pinus radiata*). These trees may require tree protection

depending upon the location and extent of grading and construction work along the west property line. It should be noted that these trees are in marginal structural condition with various significant structural defects observed.

Tree Valuation:

With the exception of the London plane trees (street trees) being removed for the PG&E gas line project, all of the protected trees have been appraised using the ninth edition of the Guide for Plant Appraisal and specifically using the Trunk Formula Method. The valuation calculations are provided in Appendix B. The total appraisal value for the 18 trees is \$183,900.00.

Individual Tree Evaluations

Following is a description of the various datum used in the evaluations.

Tree #:

The trees have been assigned a number as indicated on the aerial plan.

Botanical and Common Names:

The botanical name (species) and common name are provided for each tree.

DBH and # of Trunks:

DBH refers to the measurement of the trunk diameter at breast height (54 inches above grade). This measurement is useful to arborists providing quotations for tree maintenance work and evaluating tree growth over time.

The # of trunks notes single or multiple trunk trees. Trunks must occur at or below 54 inches above grade for tree to be considered as having multiple trunks for purposes of measurement.

Height and Crown Diameters:

These fields are approximate visual estimates of the tree's height and crown spread. Accuracy is within plus or minus 10% of the indicated measurement.

Health and Structural Ratings and Descriptions:

The following chart describes the health and structural rating system used in the evaluation. It is a rating of relative conditions such as vigor, extent of decay, structure, and insect or disease problems. Good and moderate ratings indicate limited structural problems, acceptable vigor, and an absence of significant pest or disease problems. Poor and marginal ratings indicate serious health or structural problems especially if the tree is situated near structures or public areas. Trees rated as structurally poor or marginal are often at high risk of structural failure.

Rating Chart:

4	Good condition	Relatively minor structural concerns and no serious insect or disease problems.
3	Moderate condition	Normal and correctable problems of structure or pests and diseases.
2	Marginal condition	Indicates serious problems with structure, decay, or significant insect or disease problems.
1	Poor condition	Indicates very poor health, vigor, or hazardous structural condition

Trees may be rated between two conditions, such as 2.5 or 3.5. This indicates the tree does not precisely meet the criteria for either of the two categories and allows the rating system to be used as a continuum.

The Health Description and Structural Description fields describe the basis for the health and structural rating. The specific pests, disease, and structural defects observed are described and identified if possible.

This evaluation is of above ground structure only and additional defects may exist at the root collar. Often, larger mature and over-mature trees require a root collar examination to evaluate the primary structural roots and root collar for decay and disease.

Observations:

This is summary discussion of the health and structural ratings as well as identification of any significant pest or disease issues or structural defects.

Suitability For Preservation

A rating has been provided for suitability for preservation based upon a tree's ability to tolerate construction impact. The age, species, and condition of the tree affect this rating. Grading or site layout requirements may take precedent over this rating.

Recommendations/Construction Impact:

Recommendations are provided for either tree protection procedures or removal. Hazard abatement procedures may also be included where appropriate. A summary of potential impact to the tree from the proposed construction is also described. Clearance distances and type of construction are considered as part of this assessment.

Protected Tree Status:

Status of tree relative to protected tree designation based upon the city of Hayward Tree Preservation Ordinance.

9/14/17

Site/Tree Images:



Tree #1, bronze loquat.



Trees #1, #2, and #3 bronze loquats.



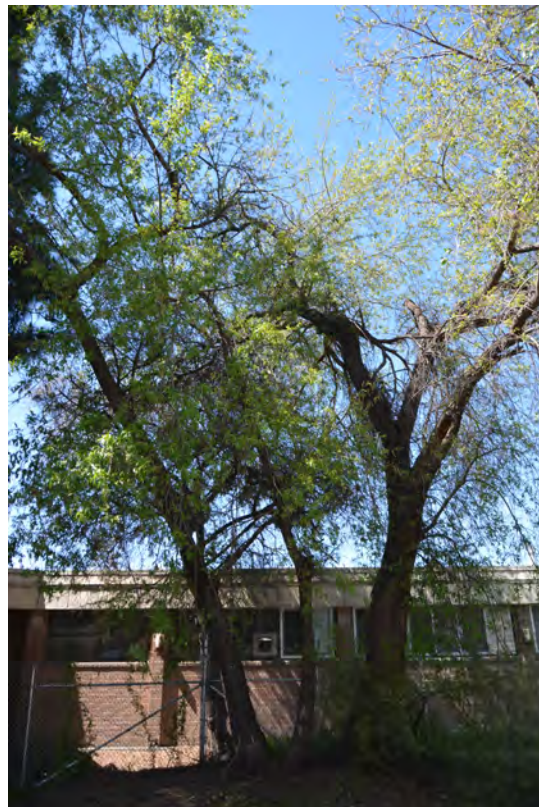
Italian stone pines (trees #4, #5, and #6).



Lower crowns of the Italian stone pines with dense ivy growing on trees.



Italian stone pine #6.



Willows along property line (#7 and #8)



Old, decayed wound on scaffold limb of willow.



Italian stone pines, trees #9 and #10.



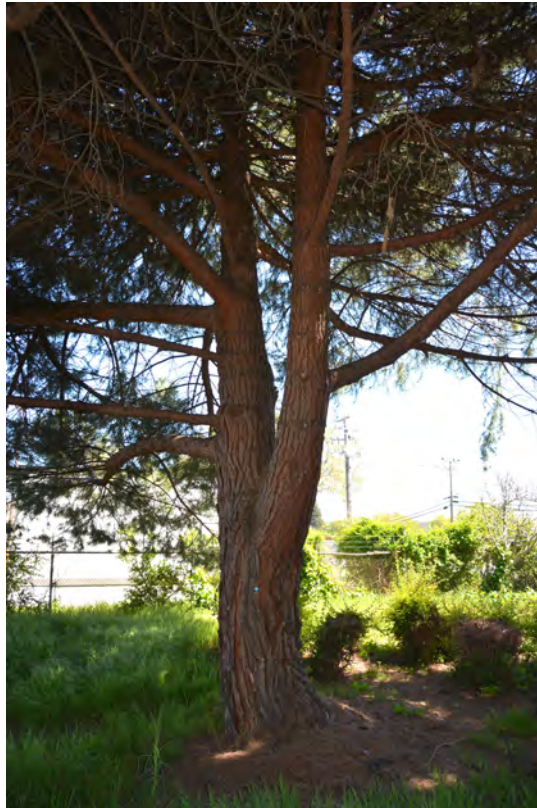
Mature Canary Island pines and Monterey pines on adjacent government property to west.



Shamel ash, tree#11.



Italian stone pines, trees #12, #13, and #14.



Defective, included, co-dominant trunks on Italian stone pine.



English walnut, tree #15.



Ginkgo, tree #17.



Ginkgo, tree #21.



London plane tree (tree #20) in marginal health due to drought stress. Arrow indicated underground gas line location. Tree #16.



London plane tree in very poor condition (tree #18)



London plane tree (#22) at adjacent property.



London plane trees (#23 and #24) at adjacent property to east.



London plane trees (#25, #26, #27) at future parking lot.

Appendix A

Tree Evaluation and Construction Impact Matrix

Hayward Fire Training Facility, Hayward, CA- Tree Evaluation and Construction Impact Assessment (Appendix A)

Hayward Fire Training Facility, Hayward, CA- Tree Evaluation and Construction Impact Assessment

Health and Structural Rating Key: 3.0 = moderate or better condition
 2.5 = marginal to moderate
 2.0 = marginal condition
 1.5 = poor to marginal condition
 1.0 = poor condition

Construction Impact Code: RC= Removal Due to Construction
 RR- Removal Recommended Due to Condition
 PI= Possible Impact- Tree Protection Required
 NI= No Impact

Tree Tag /GPS Waypoint	Species	Trunk Diameter @ 4.5' (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based on Condition)	Construction Impact	Tree Impact Code	Protected Tree Status	Appraisal Value (Protected Trees)
001	bronze loquat (<i>Eriobrya deflexa</i>)	19.5	1	25'±	35'-40'±	3.0	3.0	Wide, spreading crown form. Closely spaced, multiple limb attachments form at 8'. No significant structural defects observed. Vigor and foliage density are moderate to good.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$12,100.00
002	bronze loquat	13.5	1	25'±	25'±	3.0	3.0	Rounded crown form with closely spaced, multiple limb attachments form at 8'. No significant structural defects observed. Areas of variable foliage density. Limited twig dieback occurring.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$5,800.00
003	bronze loquat	13.5	1	25'±	30'±	2.5	3.0	Wind shaped crown with closely spaced, multiple limb attachments form at 8'. Significant twig dieback occurring.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$5,800.00
004	Italian stone pine (<i>Pinus pinea</i>)	30.5	1	35'-40'±	50'-55'±	3.0	2.0	Mature tree with co-dominant trunks forming at 10'. West trunk has 45° angle and then ascends. Originally a three trunk structure with trunk removal scar. Wood reaction ridge present. Dense crown with normal vigor. Dense ivy on lower trunk.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$12,900.00
005	Italian stone pine	26; 31	2	35'-40'±	50'-55'±	3.0	2.0	Mature tree with three trunk structure forming at 4.5'. Wide, symmetrical crown form. Wood reaction ridge formed at trunk union. Significant pavement displacement occurring from roots. Vigor and foliage density are normal. Dense ivy on lower trunk.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$21,100.00
006	Italian stone pine	43	1	35'-40'±	50'-55'±	3.0	2.0	Mature tree with closely spaced limb attachments forming at 6'. Wide, symmetrical, and dense crown. Extended limb over building. Vigor and foliage density are normal. Dense ivy on lower trunk.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$23,300.00
007	willow (<i>Salix laevigata</i>)	21	1	40'-45'±	35'-40'±	2.0	1.5	Mature tree with significant trunk and limb decay. History of limb failure. Old second trunk removed at base.	Poor	Located within construction or grading limits with removal required.	RC	Yes	\$900.00
008	willow	6; 14	2	40'±	30'-35'±	2.0	2.0	Low, two trunk structure forming at grade. Small cavity opening at base of trunk. High-branched structure. On opposite side of fence is a 15" willow in very poor condition.	Poor	Located within construction or grading limits with removal required.	RC	Yes	\$400.00
009	Italian stone pine	34; 35	2	45'-50'±	40'-45'±	3.0	2.0	Mature tree with low, two-trunk structure. Wide structure with extended and heavy limbs. History of lower crown pruning. Vigor and foliage density are normal.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$27,600.00

Hayward Fire Training Facility, Hayward, CA- Tree Evaluation and Construction Impact Assessment (Appendix A)

Tree Tag /GPS Waypoint	Species	Trunk Diameter @ 4.5' (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based on Condition)	Construction Impact	Tree Impact Code	Protected Tree Status	Appraisal Value (Protected Trees)
010	Italian stone pine	32	1	50'±	30'-35'±	3.0	3.0	Mature tree with single trunk structure. Upright crown form with no significant structural defects observed. Dense crown. Pavement displacement occurring.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$18,100.00
011	Shamel ash (<i>Fraxinus uhdei</i>)	17		30'-35'±	30'-35'±	2.0	2.0	Semi-mature tree with closely spaced, multiple limb attachments. Deep seams and included attachments present. Vigor is moderately low, with significant upper crown dieback occurring.	Poor	Located within construction or grading limits with removal required.	RC	Yes	\$2,600.00
012	Italian stone pine	24; 30	2	35'-40'±	35'-40'±	3.0	2.0	Mature tree with two-trunk structure with seam present. Dense, symmetrical crown form. Extended and weighted limb form.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$20,800.00
013	Italian stone pine	33.5	1	35'-40'±	35'-40'±	3.0	2.0	Mature tree with co-dominant trunks forming at 10'. Vertical trunk forms with narrow union and wood reaction ridge present.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$15,300.00
014	Italian stone pine	26		35'-40'±	35'-40'±	3.0	3.0	Mature tree with single trunk structure. No significant structural defects observed. Dense crown.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$12,200.00
015	English walnut (<i>Juglans regia</i>)	7 (low)	2	12'±	15'±	3.0	3.0	Young tree with low structure. No significant structural defects observed. Vigor and foliage density are moderate. Located at fence line.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$300.00
016	London plane tree (<i>Platanus x acerifolia</i> 'Bloodgood')	26	1	40'-45'±	45'-50'±	2.0	3.0	Mature tree located adjacent to sidewalk. History of displacement and repairs. Closely spaced, multiple limb attachments form at 10'. History of lower crown pruning. No significant structural defects. Vigor is low with significant branch and twig dieback occurring. Apparent drought stress.	Marginal	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
017	ginkgo (<i>Ginkgo biloba</i>)	7.5	1	15'±	20'±	2.5	3.0	Small tree with leaning form. No significant structural defects. Vigor is moderately low from drought stress.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$1,800.00
018	London plane tree	16.5	1	35'±	30'±	1.5	2.5	Mature tree located adjacent to storm drain. Open limb structure with history of lower crown pruning. Very low vigor with substantial branch and twig dieback.	Poor	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
019	ginkgo	7	1	18'-20'±	15'±	3.0	3.0	Young tree with closely spaced multiple limb attachments. No significant structural defects observed. Vigor and foliage density are moderate.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$1,600.00
020	London plane tree	13	1	35'±	30'±	2.0	2.5	Located in 4' sidewalk cutout. Semi-mature tree with open, symmetrical crown form. Lower crown pruning. Vigor is low with twig dieback occurring.	Marginal	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA

Hayward Fire Training Facility, Hayward, CA- Tree Evaluation and Construction Impact Assessment (Appendix A)

Tree Tag /GPS Waypoint	Species	Trunk Diameter @ 4.5' (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based on Condition)	Construction Impact	Tree Impact Code	Protected Tree Status	Appraisal Value (Protected Trees)
021	ginkgo	6	1	18'±	12'±	3.0	3.0	Young tree with no significant structural defects. Vigor and foliage density are moderate.	Moderate to Good	Located within construction or grading limits with removal required.	RC	Yes	\$1,300.00
022	London plane tree	27	1	50'-55'±	50'-60'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
023	London plane tree	25	1	50'-55'±	50'-60'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
024	London plane tree	18.5	1	50'-55'±	50'-60'±	1.5	2.5	Mature tree nearly entirely defoliated. Lower trunk wound present. Open limb structure.	Poor	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
025	London plane tree	26	1	45'-50'±	40'-45'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
026	London plane tree	15.5	1	45'-50'±	40'-45'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
027	London plane tree	31.5	1	50'-55'±	50'-60'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA

Appendix B

Tree Valuations

Hayward Fire Training Facility
Appendix B- Tree Valuations

Trunk Formula Method Appraisal Calculations

Tree #	Species	Condition	Trunk Diameter (Or equivalent multiple trunk diameter)	Location	Site	Contribution	Placement	Species Rating	Replacement Tree Size (in.) (Average)	Replacement Tree Trunk Area	Replacement Tree Cost	Installation Cost	Installed Tree Cost	Unit Tree Cost	Appraised Trunk Area (TA) (or adjusted TA)	Basic Tree Cost	Appraised Value	% Loss	Appraised Value (rounded)
001	bronze loquat (<i>Eriobotrya deflexa</i>)	75%	19.5	33%	70%	15%	15%	70%	1.69	2.24	\$172.73	\$345.46	\$518.19	\$231.33	298	\$69,052.58	\$12,084.20	100%	\$12,100
002	bronze loquat	75%	13.5	33%	70%	15%	15%	70%	1.69	2.24	\$172.73	\$345.46	\$518.19	\$231.33	143	\$33,096.21	\$5,791.84	100%	\$5,800
003	bronze loquat	75%	13.5	33%	70%	15%	15%	70%	1.69	2.24	\$172.73	\$345.46	\$518.19	\$231.33	143	\$33,096.21	\$5,791.84	100%	\$5,800
004	Italian stone pine (<i>Pinus pinea</i>)	60%	30	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	707	\$77,073.94	\$12,948.42	100%	\$12,900
005	Italian stone pine	60%	40	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	1149	\$125,347.43	\$21,058.37	100%	\$21,100
006	Italian stone pine	60%	43	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	1273	\$138,874.92	\$23,330.99	100%	\$23,300
007	willow (<i>Salix laevigata</i>)	10%	21	33%	70%	15%	15%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	346	\$37,766.23	\$881.21	100%	\$900
008	willow	10%	15	33%	70%	15%	15%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	177	\$19,268.49	\$449.60	100%	\$400
009	Italian stone pine	60%	49	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	1504	\$164,075.32	\$27,564.65	100%	\$27,600
010	Italian stone pine	75%	32	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	788	\$85,964.99	\$18,052.65	100%	\$18,100
011	Shamel ash (<i>Fraxinus uhdei</i>)	30%	17	33%	70%	15%	15%	30%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	788	\$85,964.99	\$2,578.95	100%	\$2,600
012	Italian stone pine	60%	38	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	1134	\$123,660.86	\$20,775.02	100%	\$20,800
013	Italian stone pine	60%	33	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	835	\$91,092.35	\$15,303.51	100%	\$15,300
014	Italian stone pine	75%	26	40%	70%	25%	25%	70%	2.46	4.75	\$172.73	\$345.46	\$518.19	\$109.09	531	\$57,891.10	\$12,157.13	100%	\$12,200
015	English walnut (<i>Juglans regia</i>)	75%	7	25%	70%	3%	3%	30%	2.2	3.8	\$172.73	\$345.46	\$518.19	\$136.37	38	\$5,245.31	\$298.98	100%	\$300
017	ginkgo (<i>Ginkgo biloba</i>)	75%	7.5	27%	70%	5%	5%	90%	1.69	2.24	\$172.73	\$345.46	\$518.19	\$231.33	44	\$10,214.88	\$1,838.68	100%	\$1,800
019	ginkgo	75%	7	27%	70%	5%	5%	90%	1.69	2.24	\$172.73	\$345.46	\$518.19	\$231.33	38	\$8,898.29	\$1,601.69	100%	\$1,600
021	ginkgo	80%	6	27%	70%	5%	5%	90%	1.69	2.24	\$172.73	\$345.46	\$518.19	\$231.33	28	\$6,537.52	\$1,255.20	100%	\$1,300

Total: \$183,900

Appraised Value = Basic Tree Cost x Species Rating x Condition x Location

Basic Value = Unit Tree Cost x Appraised Trunk Area (TA or ATA)

Condition = Structural integrity and health rating (rating assigned based upon the following factors: roots, trunk, scaffold branches, smaller branches and twigs, and foliage.)

Location = Mean of site, contribution, and placement ratings.

Installed Tree Cost = The cost to buy and install the largest normally available transplantable tree in the Western Region.

Unit Tree Cost = The cost per unit trunk area of an installed replacement tree as established by the Regional Supplement.

Appraised Trunk Area (TA) = Cross-sectional trunk area measured at 4.5 feet above grade (dbh) in square inches.

Adjusted TA = Adjusted trunk area for trees greater than a 30 inch diameter.

Species Factor = regional rating of the appraised tree species.

Appendix C

Tree Locations and Numbering Aerial

Hayward Fire Training Facility
Tree Location and Numbering Aerial



Aerial showing tree locations and assigned tree numbers.

Prepared for **RossDrulisCusenbery Architecture Inc.**

**FINAL GEOTECHNICAL INVESTIGATION
HAYWARD FIRE STATION #6
& FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California**

***UNAUTHORIZED USE OR COPYING OF THIS DOCUMENT IS STRICTLY
PROHIBITED BY ANYONE OTHER THAN THE CLIENT FOR THE SPECIFIC
PROJECT***

July 14, 2017
Project No. 15-919B

July 14, 2017
Project No. 15-919B

Mr. Michael Ross
RossDrulisCusenbery Architecture, Inc.
18294 Sonoma Highway
Sonoma, California 95476

Subject: Final Geotechnical Investigation
Hayward Fire Station #6 & Fire Training Center
1401 West Winton Avenue
Hayward, California

Dear Mr. Ross:

We are pleased to present our final geotechnical report for the proposed new Fire Station #6 (FS#6) and Fire Training Center (FTC) to be constructed at 1401 West Winton Avenue in Hayward, California. Our investigation was performed in accordance with our Consultant Service Agreement with RossDrulisCusenbery Architecture, Inc. dated March 27, 2017.

The site is located on the northern side of West Winton Avenue at its intersection with Saklan Road and south of the Hayward Executive Airport. The project site encompasses approximately 5.6 acres plus an additional 1.1 acre designated for a public parking lot. The western portion of the site is currently occupied by FS#6, which consists of a single-story fire house building, a single-story classroom building, a burn building, and a training tower. The eastern portion of the site is currently undeveloped, except for a paved circular concrete pad at the center of the northern property line. Plans are to demolish the existing improvements and construct a new FS#6 and FTC that will include site improvements and eight new structures.

On the basis of our investigation, we conclude the proposed improvements may be constructed as planned, provided the recommendations presented in the attached report are incorporated into the project plans and specifications. The primary geotechnical concerns are the potential for liquefaction-induced ground settlement and the presence of moderately to highly expansive near-surface clay. We conclude the proposed structures may be supported on individual spread footings at interior column locations and continuous, deepened perimeter footings. The perimeter footings should be deepened to act as barriers to reduce the potential for moisture change beneath the slab-on-grade floors. Alternatively, the proposed building may be supported on a stiffened foundation

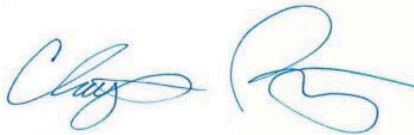
Mr. Michael Ross
RossDrulisCusenbery Architecture, Inc.
July 14, 2017
Page 2

system, such as a mat. We also recommend floor and mat slabs be underlain by 12 inches of non-expansive soil.

Our report contains specific recommendations regarding earthwork and grading, foundation design, pavement design, and other geotechnical issues. The recommendations contained in our report are based on limited subsurface exploration. Consequently, variations between expected and actual soil conditions may be found in localized areas during construction. Therefore, we should be engaged to observe foundation installation, grading, and fill placement, 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.



Clayton J. Proto, P.E.
Project Engineer



Linda H.J. Liang, P.E., G.E.
Associate Engineer

Enclosure

QUALITY CONTROL REVIEWER:



Craig S. Shields, P.E., G.E.
Principal Engineer

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	SCOPE OF WORK	2
3.0	FIELD INVESTIGATION AND LABORATORY TESTING.....	3
3.1	Cone Penetration Tests.....	3
3.2	Test Borings.....	4
3.3	Hand-Augered Borings	5
3.4	Laboratory Testing.....	5
3.5	Previous Investigations by Others	5
4.0	SUBSURFACE CONDITIONS.....	6
5.0	SEISMIC CONSIDERATIONS	7
5.1	Regional Seismicity	7
5.2	Geologic Hazards.....	10
5.2.1	Ground Shaking.....	10
5.2.2	Ground Surface Rupture	10
5.2.3	Liquefaction and Associated Hazards	11
5.2.4	Cyclic Densification	12
6.0	DISCUSSIONS AND CONCLUSIONS	12
6.1	Expansive Soil	13
6.2	Foundation Support and Settlement.....	13
6.3	Construction Considerations	14
6.4	Soil Corrosivity.....	14
7.0	RECOMMENDATIONS.....	14
7.1	Site Preparation, Grading, and Fill Placement	14
7.1.1	Select Fill	17
7.1.2	Lime Treatment	17
7.1.3	Utility Trench Backfill.....	18
7.1.4	Drainage and Landscaping.....	19
7.1.5	Bioswales	20
7.2	Foundations	21
7.2.1	Spread Footings.....	21
7.2.2	Mat Foundations.....	22
7.3	Capillary Moisture Break and Water Vapor Retarder	24
7.4	Exterior Concrete Flatwork	25
7.5	Pavement Design	26

7.5.1	Flexible (Asphalt Concrete) Pavement Design.....	26
7.5.2	Rigid (Portland-Cement Concrete) Pavement.....	27
7.5.3	Non-Permeable Concrete Pavers.....	28
7.5.4	Permeable Interlocking Concrete Pavers.....	28
7.6	Permeable Gravel Surfacing.....	32
7.7	Seismic Design	32
8.0	ADDITIONAL GEOTECHNICAL SERVICES	33
9.0	LIMITATIONS	33

FIGURES

APPENDIX A – Cone Penetration Test Results

APPENDIX B – Logs of Test Borings

APPENDIX C – Laboratory Test Results

APPENDIX D – Corrosion Evaluation Report

APPENDIX E – Subsurface Information by Others

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Regional Geologic Map
Figure 4	Regional Fault Map
Figure 5	Seismic Hazard Zone Map
Figure 6	Generalized ICPI Permeable Paver Detail for No Exfiltration

APPENDIX A

Figures A-1 through A-9	Cone Penetration Test Results, CPT-1 to CPT-9
-------------------------	---

APPENDIX B

Figures B-1 Logs of Borings B-1 through B-3
through B-3

Figure B-4 Classification Chart

APPENDIX C

Figure C-1 Consolidation Test Report

Figures C-2 Unconsolidated-Undrained Triaxial Compression Test
through C-4

Figure C-5 Plasticity Chart

Figure C-6 Resistance Value

**FINAL GEOTECHNICAL INVESTIGATION
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California**

1.0 INTRODUCTION

This report presents the results of the final geotechnical investigation performed by Rockridge Geotechnical, Inc. for the proposed new Fire Station #6 (FS#6) and Fire Training Center (FTC) to be constructed at 1401 West Winton Avenue in Hayward, California. The site is located on the northern side of West Winton Avenue at its intersection with Saklan Road and south of the Hayward Executive Airport, as shown on Site Location Map, Figure 1. We previously performed a preliminary geotechnical investigation for this project and presented our preliminary findings and recommendations in a report dated December 14, 2015.

The project site encompasses approximately 5.6 acres plus an additional 1.1 acres designated for a public parking lot. The western portion of the site is currently occupied by FS#6, which consists of a single-story fire house building, a single-story classroom building, a burn building, and a training tower. The eastern portion of the site is currently undeveloped, except for a paved circular concrete pad at the center of the northern property line.

Plans are to demolish the existing improvements and construct a new FS#6 and FTC that will include site improvements and eight new structures as shown on the Site Plan, Figure 2, and as described below:

- **Site Improvements**
 - Street improvements to West Winton Avenue, including deceleration lanes and new sidewalk and accessible paths
 - New concrete pavements, including heavy traffic areas capable of withstanding fire apparatus traffic
 - New asphalt-paved parking areas
 - Permeable gravel surfacing at fire training areas

- Landscaping areas, including bioswales
- New utilities
- Building pads for eight new structures
- **Buildings/Structures**
 - FS#6/Classroom Building (Building 1): Two stories and 20,265 square feet
 - Apparatus Building (Building 2): Single story and 8,272 square feet
 - Hangar Building (Building 3): Single story and 2,916 square feet
 - Storage Building (Building 4): Single story and 1,160 square feet
 - Burn Building (Building 5): Three stories, 4,534 square feet
 - Outdoor Classroom Building (Building 6): Single story and 1,600 square feet
 - USAR/BART Training Structure (Building 7): Three stories, 12,117 square feet
 - Training Tower (Building 8): Four stories, 11,172 square feet.

2.0 SCOPE OF WORK

Our final geotechnical investigation was performed in accordance with our Consultant Service Agreement with RossDrulisCusenbery Architecture, Inc. dated March 27, 2017. Previously, we explored the subsurface conditions at the site by performing two cone penetration tests (CPTs) during our preliminary geotechnical investigation and reviewing boring logs previously drilled at the site by others. To supplement the available subsurface information, we performed an additional seven CPTs, drilled three test borings, and performed laboratory testing on selected soil samples. Based on the results of the CPTs, borings, laboratory tests, and data from previous investigations, we performed engineering analyses to develop design-level conclusions and recommendations regarding:

- 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 structures
- 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 preparation and grading, including criteria for fill quality and compaction
- subgrade preparation for slab-on-grade floors
- bioswales
- flexible and rigid pavement design
- 2016 California Building Code (CBC) site class and design spectral response acceleration parameters
- corrosivity of the near-surface soil and the potential effects on buried concrete and metal structures and foundations, and recommendations for corrosion protection
- construction considerations.

3.0 FIELD INVESTIGATION AND LABORATORY TESTING

We explored subsurface conditions at the site by performing field investigations in 2015 and 2017. Prior to each mobilization, we obtained a drilling permit from Alameda County Public Works Agency (ACPWA) and contacted Underground Service Alert (USA) to notify them of our work, as required by law. We also retained Precision Locating LLC, a private utility locator, to check that the proposed boring and CPT locations were clear of buried utilities.

3.1 Cone Penetration Tests

Nine CPTs, designated as CPT-1 through CPT-9, were performed to provide in-situ soil data at the approximate locations shown on Figure 2. CPT-1 and CPT-2 were performed by Middle Earth Geo Testing Inc. of Orange, California on October 1, 2015 to a depth of 60 feet below ground surface (bgs). CPT-3 through CPT-9 were performed by Gregg Drilling & Testing Inc. of Martinez, California on April 10, 2017 to a depth of 50 feet bgs.

The CPTs were performed by hydraulically pushing a 1.4-inch-diameter cone-tipped probe with a projected area of 10 square centimeters into the ground. 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 continuously

recorded by a computer while the test was conducted. Accumulated data were processed by computer to provide engineering information such as the behavior types and correlated strength characteristics of the soil encountered. The CPT logs showing tip resistance and friction ratio, as well as interpreted soil behavior type, are presented in Appendix A on Figures A-1 through A-9. Upon completion, the CPT holes were backfilled with cement grout in accordance with ACPWA requirements.

3.2 Test Borings

Three test borings, designated as B-1 through B-3, were drilled on April 10, 2017 by Cascade Drilling Inc. of Richmond, California at the approximate locations shown on Figure 2. The borings were drilled using a truck-mounted drill rig equipped with eight-inch-diameter hollow-stem augers. The borings were drilled to depths between 31.5 and 41.5 feet bgs.

During drilling, our field engineer logged the soil encountered and obtained representative samples for visual classification and laboratory testing. The logs of borings are presented in Appendix B on Figures B-1 through B-3. The soil encountered in the borings was classified in accordance with the classification chart shown on Figure B-4 in Appendix B.

Soil samples were obtained using the following samplers:

- Sprague and Henwood (S&H) 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 tubes.
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter, without liners.
- Thin-walled Shelby Tube (ST) sampler with a 3.0-inch outside diameter and 2.875-inch inside diameter.

The S&H and SPT samplers were driven with an automatic, above-ground hammer weighing 140 pounds and falling about 30 inches per drop. The samplers were driven up to 18 inches and the hammer blows required to drive the sampler 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 S&H and SPT samplers were converted to approximate SPT N-values using factors of 0.8 and 1.35, respectively, to account for sampler type, approximate hammer energy, and the fact that the SPT sampler was driven without liners. The blow counts used for this conversion were the last two blow counts. The converted SPT N-values are presented on the boring logs.

Upon completion of drilling, the boreholes were backfilled with cement grout under the observation of the ACPWA inspector. The soil cuttings generated by the borings were placed in vegetated areas on site.

3.3 Hand-Augered Borings

Samples of near-surface soil were obtained at three locations for laboratory testing using hand-operated auger equipment. We advanced a hand auger at locations adjacent to CPT-1 and CPT-2, as well as at location R-1, as shown on Figure 2. The borings were advanced to depths of 3 to 4 feet bgs to obtain near-surface soil samples for visual classification and laboratory testing.

3.4 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 to measure moisture content, dry density, fines content, Atterberg limits, shear strength, consolidation characteristics, and resistance (R-value). The results of the laboratory tests are presented on the boring logs and in Appendix C.

In addition, the corrosivity of near surface soil was tested and evaluated by Project X of Murrieta, California. The corrosivity report is presented in Appendix D.

3.5 Previous Investigations by Others

Woodward-Clyde Consultants (WCC) performed a geotechnical investigation for the existing Fire Station 6 and presented the results in a report titled “*Geotechnical Investigation for the Proposed Fire Station No. 6, West Winton Avenue and Saklan Road, Hayward, California*” and dated January 14, 1975. For their investigation, WCC drilled five soil borings, designated

WCC-1 through WCC-5, at the approximate locations shown on Figure 2 to depths ranging from 13.5 to 25 feet. The WCC boring logs and laboratory test results are presented in Appendix E.

4.0 SUBSURFACE CONDITIONS

A regional geologic map prepared by Graymer, et al. (2006), a portion of which is presented on Figure 3, indicates the site vicinity is underlain by Holocene-age alluvial deposits (Qha). The results of borings and CPTs performed during this and previous investigations indicate the site is underlain by alluvial deposits to the maximum depth explored of 60 feet bgs. The alluvium generally consists of interbedded layers of medium stiff to very stiff clay with varying sand content, and medium dense sand and silty sand. Where explored, the sand and silty sand layers are up to seven feet thick. The results of Atterberg limits tests indicate the near-surface soil consists of clay that has plasticity indexes (PIs) ranging from 20 to 32 and, therefore, is considered to be moderately to highly expansive¹.

Groundwater was measured at depths ranging from about 13 and 16 feet bgs during our field investigation. We anticipate the depth to groundwater will vary several feet seasonally, depending on the amount of rainfall. To estimate the historic high groundwater, we reviewed *Seismic Hazard Zone Report for the Hayward 7.5-minute Quadrangle, Alameda County, California* prepared by the California Geological Survey (CGS, 2003). The report indicates the historic high groundwater in the site vicinity is approximately 10 feet bgs.

¹ Expansive soil is susceptible to volumetric changes with changes in moisture content. (i.e. shrinks when dried and swells well wetted).

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 plate and North American plate 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 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, San Andreas, Calaveras, and San Gregorio faults. These and other faults in the region are shown on Figure 4. For these and other active faults within a 50-kilometer radius of the site, the distance from the site and estimated mean characteristic Moment magnitude² [2007 Working Group on California Earthquake Probabilities (WGCEP) (USGS 2008) and Cao et al. (2003)] are summarized in Table 1.

² Moment magnitude 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.

TABLE 1
Regional Faults and Seismicity

Fault Segment	Approximate Distance from Site (km)	Direction from Site	Mean Characteristic Moment Magnitude
Total Hayward	4.0	Northeast	7.00
Total Hayward-Rodgers Creek	4.0	Northeast	7.33
Total Calaveras	17	East	7.03
Mount Diablo Thrust	23	Northeast	6.70
N. San Andreas - Peninsula	25	West	7.23
N. San Andreas (1906 event)	25	West	8.05
Monte Vista-Shannon	27	Southwest	6.50
Green Valley Connected	30	Northeast	6.80
Greenville Connected	35	East	7.00
San Gregorio Connected	37	West	7.50
N. San Andreas - North Coast	43	West	7.51
Great Valley 5, Pittsburg Kirby Hills	47	Northeast	6.70

Since 1800, four major earthquakes have been recorded on the northern California section of the 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 (Topozada 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 most recent significant earthquake to affect the Bay Area was the Loma Prieta Earthquake of 17 October 1989 with an M_w of 6.9. This earthquake occurred in the Santa Cruz Mountains about 72 kilometers south of the site.

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 (probably an 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 ($M_w = 6.2$).

The U.S. Geological Survey's 2014 Working Group on California Earthquake Probabilities has compiled the earthquake fault research for the San Francisco Bay Area in order to estimate the probability of fault segment rupture. They have determined that the overall probability of moment magnitude 6.7 or greater earthquake occurring in the San Francisco region during the next 30 years (starting from 2014) is 72 percent. The highest probabilities are assigned to the Hayward Fault, Calaveras Fault, and the northern segment of the San Andreas Fault. These probabilities are 14.3, 7.4, and 6.4 percent, respectively.

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,³ lateral spreading,⁴ and cyclic densification⁵. We used the results of this and previous field investigations 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, including the San Andreas, Calaveras, and San Gregorio 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. The site is about four kilometers from the Hayward Fault. 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 Ground Surface 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. We therefore conclude the risk of fault offset at the site from a known active fault is negligible. In a seismically active area, the remote possibility exists for future faulting in areas where no faults

³ Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

⁴ 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.

⁵ Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

5.2.3 Liquefaction and Associated Hazards

Liquefaction is a phenomenon in which saturated soil temporarily loses strength from the build-up of excess pore water pressure, especially during earthquake-induced cyclic loading. Soil susceptible to liquefaction includes 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 has been mapped within a zone of liquefaction potential as shown on the map titled *State of California, Seismic Hazard Zones, Hayward Quadrangle, Official Map*, prepared by the California Geological Survey (CGS), dated July 2, 2003 (see Figure 5).

Liquefaction susceptibility was assessed using the software CLiq v2.1 (GeoLogismiki, 2016), with consideration of laboratory testing performed on soil samples from the borings. CLiq uses measured field CPT data and assesses liquefaction potential, including post-earthquake vertical settlement, given a user-defined earthquake magnitude and peak ground acceleration (PGA). We performed liquefaction triggering analyses using our CPT data in accordance with the methodology proposed by the National Center for Earthquake Engineering Research (NCEER) outlined in Youd et al. (2001), as well as the methodology proposed by Idriss and Boulanger (2014). Settlements were evaluated using a volumetric strain (post-liquefaction reconsolidation) framework as outlined in Ishihara & Yoshimine (1992) and Zhang et al. (2002). Settlements were then modified based on the procedure outlined in Cetin et al. (2009).

For our analysis, we assumed a high groundwater depth of 10 feet bgs and a Moment magnitude 7.33 earthquake, which is consistent with the mean characteristic Moment magnitude for the Hayward Fault, as presented in Table 1. In accordance with the 2016 CBC, we used a PGA of 0.74 times gravity (g) in our liquefaction evaluation; this PGA is consistent with the Maximum

Considered Earthquake Geometric Mean (MCE_G) peak ground acceleration adjusted for site effects (PGA_M).

Our liquefaction analyses indicate that, in general, relatively thin layers of potentially liquefiable soil were encountered in the CPTs below a depth of 10 feet bgs. The potentially liquefiable soils have soil behavior types “sand”, “silty sand”, “sandy silt” and clayey silt”. On the basis of our analysis, we estimate total and differential liquefaction-induced settlements will be on the order of 1/4 to 1-1/4 inches and 1/2 inch over a horizontal distance of 30 feet, respectively.

Based on the methodology proposed by Ishihara (1985), the non-liquefiable soil overlying the potentially liquefiable soil layers is sufficiently thick such that the potential for surface manifestations from liquefaction, such as sand boils, and loss of bearing capacity for shallow foundations, is low. Considering the potentially liquefiable soil layers are not continuous, we conclude the potential for lateral spreading at the site during a major earthquake is nil.

5.2.4 Cyclic Densification

Seismically-induced compaction or cyclic densification of non-saturated sand (sand above the groundwater table) caused by earthquake vibrations may result in differential settlement. The soil encountered above the groundwater table primarily consists of clay which is not susceptible to cyclic densification because of its cohesion. Therefore, we conclude the risk of cyclic densification to occur at the site is nil.

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) the presence of moderately to highly expansive near-surface soil, and 2) the potential for up to 1-1/4 inches of total settlement and 1/2 inch of differential settlement over a horizontal distance of 30 feet due to post-liquefaction reconsolidation following a major

earthquake. Our conclusions for this and other geotechnical aspects of the project are presented in this section.

6.1 Expansive Soil

As discussed in Section 4.0, the near-surface soil is considered to be moderately to highly expansive. Expansive near-surface soil is subject to volume changes during seasonal fluctuations in moisture content. These volume changes can cause movement and cracking of foundations, slabs, and pavements. Therefore, foundations and slabs should be designed and constructed to mitigate the effects of the expansive soil. These effects can be mitigated by moisture-conditioning the expansive clay below slabs, providing non-expansive soil below slabs, and either supporting foundations below the zone of severe moisture change or providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells.

6.2 Foundation Support and Settlement

The soil underlying the site has moderate strength and moderate compressibility. Therefore, we conclude the proposed structures, which are relatively light, may be supported on individual spread footings at interior column locations and continuous, deepened perimeter footings. The perimeter footings should be deepened to act as barriers to reduce the potential for moisture change beneath the slab-on-grade floors. Alternatively, the proposed buildings may be supported on a stiffened shallow foundation system, such as a mat.

We estimate total settlement of the proposed structures supported on spread footings or mat foundations designed using the allowable bearing pressures presented in Section 7.2 will be less than one inch and differential settlement will be less than 1/2 inch over a horizontal distance of 30 feet. As presented in Section 5.2.4, there is the potential for up to 1-1/4 inches of total settlement and 1/2 inch of differential settlement over a horizontal distance of 30 feet due to post-liquefaction reconsolidation following a major earthquake.

6.3 Construction Considerations

The soil to be excavated for the new foundations and underground utilities is expected to be predominantly clay, which can be excavated with conventional earth-moving equipment such as loaders and backhoes. If site grading is performed during the rainy season, repeated loads by heavy equipment will reduce the strength of the surficial soil and decrease its ability to resist deformation; this phenomenon could result in severe rutting and pumping of the exposed subgrade. To reduce the potential for this behavior, heavy rubber-tired equipment as well as vibratory rollers, should be avoided.

Excavations that will be deeper than five feet and will be entered by workers should be sloped or shored in accordance with CAL-OSHA standards (29 CFR Part 1926). The contractor should be responsible for the construction and safety of temporary slopes and shoring.

6.4 Soil Corrosivity

Corrosivity testing was performed by Project X Corrosion Engineers of Murrieta, California on two soil samples obtained from Boring B-1 at a depth of 6 feet and Boring B-2 at a depth of 2.5 feet. The results of the tests, as well as a corrosion evaluation report, are presented in Appendix D of this report.

7.0 RECOMMENDATIONS

Our recommendations for site preparation and grading, foundation design, seismic design, and other geotechnical aspects of the project are presented in this section.

7.1 Site Preparation, Grading, and Fill Placement

Site demolition should include removal of all existing pavements, foundations, and underground utilities. 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 footprint of the proposed improvements 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. Voids resulting from demolition activities and removal of existing utilities should be properly backfilled with engineered fill following the recommendations provided later in this section and under the observation of our field engineer.

In areas to receive fill or improvements (i.e. building pad subgrade), the soil subgrade should be scarified to a depth of at least eight inches, and moisture-conditioned and compacted to the relative compaction⁶ presented below in Table 2. The upper 12 inches of soil subgrade beneath slab-on-grade floors or mat foundations should consist of non-expansive soil; the 12 inches should be measured from the bottom of capillary moisture break layer. Exterior concrete flatwork should also be underlain by four inches of aggregate base over eight inches of non-expansive soil (see Section 7.4). Non-expansive soil may consist of imported select fill or lime-treated on-site clay, as presented in Sections 7.1.1 and 7.1.2, respectively.

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 D1557-09 laboratory compaction procedure.

TABLE 2
Summary of Compaction Requirements

Location	Required Relative Compaction (percent)	Moisture Requirement
Building pad subgrade - expansive clay	87 – 92	4+% above optimum
General fill - lime-treated clay	90+	Above optimum
General fill - expansive clay	87 – 92	4+% above optimum
General fill - low-plasticity soil	90+	Above optimum
Utility trench backfill - expansive clay	87 – 92	4+% above optimum
Utility trench backfill - low-plasticity soil	90+	Above optimum
Utility trench - clean sand or gravel	95+	Near optimum
Pavement subgrade - expansive clay	90+	Above optimum
Pavement subgrade - low-plasticity soil	95+	Above optimum
Pavement - aggregate base	95+	Near optimum
Exterior slabs - expansive clay	87 – 92	4+% above optimum
Exterior slabs - low-plasticity soil	90+	Above optimum

Note: Select fill and lime-treated clay are considered low-plasticity soil.

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 over-excavating and placing drier material, and lime treatment.

It is also important that the moisture content of subgrade soil is sufficiently high to reduce the expansion potential. If the grading work is performed during the dry season, moisture-conditioning will likely be required.

7.1.1 Select Fill

Select fill should consist of imported soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 12, and be approved by the Geotechnical Engineer. Select fill should be placed in lifts not exceeding eight inches in loose thickness and moisture-conditioned and compacted following the recommendations presented in Table 2.

Samples of proposed select 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 provided, a minimum of two weeks will be required to perform any necessary analytical testing.

7.1.2 Lime Treatment

The lime treatment process should be designed by a contractor specializing in its use and who is experienced in the application of lime in similar soil conditions. Based on our experience with lime treatment, we judge that the specialty contractor should be able to treat the moderately to highly expansive on-site material to produce a non-expansive fill for the upper 12 inches of slab-on-grade or mat subgrade. For planning purposes, we recommend assuming the lime treatment will consist of five percent of Dolomitic Quicklime by dry weight of soil. The dry weight of soil should be assumed to be 100 pounds per cubic foot (pcf) for calculating lime quantities. The specialty contractor should: 1) perform a lime demand test prior to treatment to determine the percentage of Quicklime required to achieve a pH of 12.4 or higher in the treated soil, 2) perform an Atterberg limits test to confirm the proposed percentage of Quicklime will reduce the

plasticity index of the treated soil to 15 or less, and 3) prepare a lime treatment procedure for our review prior to construction.

Prior to lime treatment, we recommend the site be graded to a level pad elevation in accordance with our previous recommendations and all below-grade obstructions removed. The soil treated with lime should be mixed and compacted in one lift. The lime should be thoroughly blended with the soil and allowed to set for 24 hours prior to remixing and compaction. The lime-treated soil should be moisture-conditioned to above optimum moisture content and compacted to at least 90 percent relative compaction.

It should be noted that disposal of lime-treated soil is typically expensive because of the high pH of the treated soil. In addition, lime-treated soil should be completely removed from landscaping areas as the high pH will prevent plant growth.

7.1.3 Utility Trench Backfill

Excavations for utility trenches can be readily made with a backhoe. All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered with six inches of sand or fine gravel, which should be mechanically tamped. The pipe bedding and cover should be eliminated where an impermeable plug is required as described below.

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 10 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 structures 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 a 28-day unconfined compressive strength of at least 100 pounds per square inch (psi) or Class 2 aggregate base compacted to at least 95 percent relative compaction.

Where utility trenches enter the building pad, an impermeable plug consisting of CLSM, at least three feet in length, should be installed where the trenches enter the building footprint. Furthermore, where sand- or gravel-backfilled trenches cross planter areas and pass below asphalt or concrete pavements, a similar plug should be placed at the edge of the pavement. The purpose of these recommendations is to reduce the potential for water to become trapped in trenches beneath the building or pavements. This trapped water can cause heaving of soils beneath slabs and softening of subgrade soil beneath pavements.

7.1.4 Drainage and Landscaping

Positive surface drainage should be provided around the buildings to direct surface water away from the foundations. To reduce the potential for water ponding adjacent to buildings, we recommend the ground surface within a horizontal distance of five feet from the buildings slope down away from the buildings 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 buildings should be avoided to reduce the amount of water introduced to the expansive clay 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.

Prior experience and industry literature indicate that some species of high water-demand⁷ trees can induce ground-surface settlement by drawing water from the expansive clay, causing it to shrink. Where these types of trees are planted near buildings, the ground-surface settlement may result in damage to structure. This problem usually occurs 10 or more years after planting, as the trees reach mature height. To reduce the risk of tree-induced building settlement, we recommend trees of the following genera are not planted within 25 feet of the proposed buildings:

Eucalyptus, *Populus*, *Quercus*, *Crataegus*, *Salix*, *Sorbus* (simple-leafed), *Ulmus*, *Cupressus*, *Chamaecyparis*, and *Cupressocyparis*. Because this is a limited list and does not include all genera that may induce ground-surface settlement, a tree specialist should be consulted prior to selection of trees to be planted at the site.

7.1.5 Bioswales

The primary concerns with the proposed bio-retention areas 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 proposed buildings. Consequently, we recommended that bioswales constructed at the site be provided with underdrains and/or drain inlets. In addition, we recommend bioswales be constructed no closer than five feet from buildings or pavements. The subdrain pipes should be installed eight inches above the bottom of the infiltration area for treatment areas. The intent of this recommendation is to allow some infiltration into the underlying soil, but to reduce the potential for bio-retention areas to flood during periods of heavy rainfall. The sides of bioswales should be sloped at a maximum gradient of 1:1 (horizontal: vertical).

⁷ “Water-demand” refers to the ability of the tree to withdraw large amounts of water from the soil subgrade, rather than soil suction exerted by the root system.

If bio-retention areas have to be located within five feet of buildings or 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 foundations 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. Where bio-retention will be excavated immediately adjacent to thickened mat edges or perimeter footings, (1) mat edge and perimeter footings to extend at least 6 inches below the bottom of the planned bio-retention excavation, and (2) the bottom and sides of the bio-retention area should be lined with an impermeable liner.

7.2 Foundations

7.2.1 Spread Footings

Continuous footings should be at least 18 inches wide and isolated spread footings should be at least 24 inches wide. Perimeter footings should be bottomed at least 30 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. In addition, perimeter footings should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal:vertical) from the bottom of any biotreatment/infiltration systems near the buildings. Interior footings should extend at least 24 inches below the bottom of the capillary moisture break.

Spread footings may be designed using allowable bearing pressures of 3,000 pounds per square foot (psf) for dead-plus-live loads and 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.

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 240 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. If the foundation soil dries during construction, the footing will eventually heave, which may result in cracking and distress. We recommend rat slabs consisting of at least two inches of CLSM be placed in the bottoms of the footings to protect them from drying out, softening from ponding water and/or disturbance from foot traffic during construction. We should check footing excavations prior to placement of the rat slabs. The CLSM used to construct the rat slabs should have a 28-day unconfined strength of at least 100 psi and should be poured within two days of footing excavation. The rat slab thickness may be counted as part of the minimum footing embedment.

7.2.2 Mat Foundations

As an alternative to spread footings, the proposed buildings may be supported on a well-reinforced concrete mat. We recommend mat foundations be at least 12 inches thick. The upper 12 inches of mat subgrade should consist of non-expansive soil, as discussed above in Section 7.1. The edges of the mat should be thickened such that the foundation edge is bottomed at least 24 inches below the adjacent exterior grade. In addition, the mat edge should be founded below an imaginary line extending up at an inclination of 1.5:1 (horizontal:vertical) from the bottom of any biotreatment/infiltration systems near the buildings.

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 bearing pressure of 3,000 psf on the foundation subgrade soil. This pressure may be increased by one-third for total load conditions. For structural design of the mat foundation, we recommend using a coefficient of vertical subgrade reaction of 10 pounds per cubic inch (pci). This value has been reduced to account for the size of the mat/equivalent footings (therefore, this is not k_{v1} for 1-foot-square plate). Once the structural engineer evaluates the initial distribution of bearing stress on the bottom of the mat, we can review the distribution and revise the coefficients of subgrade reaction, if appropriate.

Conventionally reinforced mat foundations should be designed in accordance with the Wire Reinforcement Institute's (WRI's) publication title *Design of Slab-on-Grade Foundations, An Update* (1996). We recommend the following parameters should be used in conjunction with the WRI design method:

- Climatic rating (C_w) – 15
- Effective Plasticity Index (PI) – 25

Lateral loads may be resisted by a combination of friction along the base of the mat and passive resistance against the vertical faces of the mat foundation. To compute lateral resistance, we recommend using a uniform pressure of 1,500 psf for transient load conditions and an equivalent fluid weight of 240 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 where the mat is in contact with soil. Where a vapor retarder is placed beneath the mat, a base friction coefficient of 0.20 should be used. 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.

The mat subgrade should be kept moist prior to placement of the vapor retarder (see Section 7.3). We should check the mat subgrade prior to placing the vapor retarder to confirm it is free of standing water, debris, and disturbed materials.

7.3 Capillary Moisture Break and Water Vapor Retarder

If water vapor transmission through the floor or mat slab is undesirable, which is typically the case in spaces to receive floor coverings, spaces used for storage, and/or rooms with limited air circulation (e.g., utility rooms), we recommend a vapor retarder be placed between the bottom of the floor or mat slab and the underlying subgrade. For slab-on-grade floors, we recommend a capillary moisture break be placed beneath the vapor retarder; a capillary moisture break is not required beneath mat foundations.

A capillary moisture break consists of at least four inches of clean, free-draining gravel or crushed rock. The vapor retarder beneath slab-on-grades should meet the requirements for Class B vapor retarders stated in ASTM E1745. The vapor retarder beneath mat foundations, if placed directly on soil subgrade, should meet the requirements for Class A vapor retarders stated in ASTM E1745. 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.

The particle size of the capillary break material should meet the gradation requirements presented in Table 3.

TABLE 3
Gradation Requirements for Capillary Moisture Break

Sieve Size	Percentage Passing Sieve
1 inch	90 – 100
3/4 inch	30 – 100
1/2 inch	5 – 25
3/8 inch	0 – 6

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 floor or mat slab. Therefore, concrete for the floor or mat slab should have a low w/c ratio - less than 0.50. If the concrete is poured directly over the vapor retarder, we recommend the w/c ratio of the concrete not exceed 0.45 and water not be added in the field. If necessary, workability should be increased by adding plasticizers. In addition, the slab should be properly cured. Before floor coverings, if any, are placed, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer’s requirements.

7.4 Exterior Concrete Flatwork

We recommend a minimum of four inches of Class 2 aggregate base be placed over eight inches of non-expansive soil (see Sections 7.1.1 and 7.1.2) beneath proposed exterior concrete flatwork; the non-expansive soil should extend at least six inches beyond the slab edges. Non-expansive soil beneath exterior slabs, such as patios and sidewalks, should be moisture-conditioned and compacted in accordance with the requirements presented in Table 2. Class 2 aggregate base and select fill beneath concrete flatwork should be compacted to at least 90 percent relative compaction.

Even with 12 inches of non-expansive soil (including aggregate base layer), exterior slabs may experience some cracking due to shrinking and swelling of the underlying expansive soil. Thickening the slab edges and adding additional reinforcement will control this cracking to some

degree. Where slabs are adjacent to landscaped areas, thickening the concrete edge will help control water infiltration beneath the slabs. In addition, where slabs provide access to the building, it would be prudent to dowel the entrance to the building to permit rotation of the slab as the exterior ground shrinks and swells and to prevent a vertical offset at the entries.

7.5 Pavement Design

7.5.1 Flexible (Asphalt Concrete) Pavement Design

The State of California flexible pavement design method was used to develop the recommended asphalt concrete (AC) pavement sections. The final soil subgrade in asphalt-paved areas may consist of recompacted on-site clay or lime-treated native clay. If lime treatment is used to strengthen the soil subgrade, a minimum treatment depth of 18 inches should be used.

Results of laboratory tests indicate the near-surface clay has an R-value less than 5 (see Figure C-6), which is typical for expansive clay. Based on our experience, we assumed a design R-value of 5, which is the minimum R-value for the State of California flexible pavement design method, for untreated on-site clay and an R-value of 25 for lime-treated on-site clay.

Recommended pavement sections for traffic indices (TI) ranging from 4.5 to 7.0 are presented in Table 4. The Civil Engineer for the project should check that the TI's presented in this report are appropriate for the intended use. We can provide additional pavement sections for different TIs upon request.

**TABLE 4
Asphalt Pavement Sections**

TI	Subgrade Lime Treated?	Asphaltic Concrete (inches)	Class 2 Aggregate Base R = 78 (inches)
4.5	No	2.5	9.5
	Yes	2.5	6.5
5.0	No	3.0	10.0
	Yes	3.0	6.5
5.5	No	3.0	12.0
	Yes	3.0	8.0
6.0	No	3.5	13.0
	Yes	3.5	8.5
7.0	No	4.0	16.0
	Yes	4.0	11.0

The upper eight inches of soil subgrade (treated or untreated) should be moisture-conditioned and compacted in accordance with requirements 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 observation of our field engineer to confirm it is non-yielding prior to placing aggregate base. The aggregate base should be moisture conditioned to near optimum, compacted to at least 95 percent relative compaction, and be non-yielding.

To minimize the potential of irrigation water entering the pavement section, curbs adjacent to landscaped areas should extend through the aggregate base and at least three inches into the underlying soil subgrade.

7.5.2 Rigid (Portland-Cement Concrete) Pavement

Concrete pavement design is based on a maximum single-axle load of 26,000 pounds, a maximum tandem axle load of 44,000 pounds, and heavy truck traffic (i.e. several trucks per

hour). The recommended rigid pavement section for these axle loads is seven inches of Portland cement concrete (PCC) 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 600 and 4,200 pounds per square inch (psi) at 28 days, respectively. Contraction joints should be constructed at 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. The pavement should be reinforced with a minimum of No. 4 bars at 18 inches on center in both directions. The subgrade and aggregate base should be compacted in accordance with the recommendations for asphalt pavement in Section 7.5.1.

7.5.3 Non-Permeable Concrete Pavers

Non-permeable concrete pavers for pedestrian traffic should be underlain by at least 12 inches of non-expansive soil consisting of select fill or lime-treated on-site soil as presented in Section 7.1. 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 7.5.1 for the applicable TI. The subgrade and aggregate base should be compacted in accordance with the recommendations for asphalt pavement in Section 7.5.1.

7.5.4 Permeable Interlocking 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

vehicular and pedestrian traffic be designed for no exfiltration of water into the subgrade soil. 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 traffic is presented on Figure 6.

The soil subgrade beneath ICP 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 observation of our field engineer to confirm it is non-yielding prior to placing the liner and aggregate base materials. The native soil subgrade at the bottom of the permeable section should slope down toward the drain pipe 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, operated in static (non-vibratory) mode. The subsequent course of No. 57 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. Recommendation for the minimum permeable ICP pavement section (based on traffic demand) for TI of 6.0 is presented in Table 8; ICP pavement sections for other TI's can be provided upon request. 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

TI	ASTM No. 8 Bedding Aggregate (inches)	ASTM No. 57 Stone Base (inches)	ASTM No. 2 Stone Subbase (inches)
Pedestrian	1.5-2.0	4.0 (10.0)	6.0 (0.0)
6.0	1.5-2.0	4.0	8.0

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. From a geotechnical standpoint, it is also acceptable to use compacted structural planting mix in lieu of the No. 57 and No. 2 base courses in locations where the pedestrian ICP section is adjacent to tree wells and is required for promoting root growth.

7.6 Permeable Gravel Surfacing

Where permeable gravel surfacing will be installed, such as in fire training areas, we recommend the permeable gravel surfacing material be underlain by at least six inches of compacted Class 2 aggregate base in non-vehicular areas; where the permeable gravel surfacing will receive occasional vehicular traffic (i.e., fire apparatus for training), the aggregate base layer should be increased to nine inches. The upper eight inches of soil subgrade should be moisture-conditioned and compacted in accordance with requirements presented in Section 7.1. The aggregate base should be moisture conditioned to near optimum, compacted to at least 95 percent relative compaction, and be non-yielding.

7.7 Seismic Design

We understand the proposed buildings will be designed using the 2016 CBC. As discussed in section 5.2.4, the site is underlain by potentially liquefiable soil. For design in accordance with the 2016 CBC and ASCE 41-13, a Site Class F would be used and site-specific response spectra would be needed. However, considering the proposed structures will have a period of 0.5 second or less, ASCE 7-10 does not require site-specific evaluations. Furthermore, considering the liquefiable layers are relatively thin and, therefore, the site will not incur significant nonlinear behavior during strong ground shaking. Consequently, we recommend Site Class D be used for this project.

The latitude and longitude of the site are 37.6541° and -122.1180° , respectively. Hence, in accordance with the 2016 CBC, we recommend the following:

- $S_S = 1.923g$, $S_1 = 0.777g$
- $S_{MS} = 1.923g$, $S_{M1} = 1.166g$
- $S_{DS} = 1.282g$, $S_{D1} = 0.777g$
- $PGA_M = 0.74g$
- Seismic Design Category E for Risk Categories I, II, and III
- Seismic Design Category F for Risk Category IV

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 the exploratory borings and CPTs. 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.

REFERENCES

- Boulanger, R.W and Idriss, I.M. (2014). “CPT and SPT Based Liquefaction Triggering Procedures”, Center for Geotechnical Modeling, Department of Civil and Environmental Engineering, University of California, Davis, Report No. UCD/CGM-14/01, April.
- Cao, T., Bryant, W. A., Rowshandel, B., Branum D. and Wills, C. J. (2003). The Revised 2002 California Probabilistic Seismic Hazard Maps.
- California Division of Mines and Geology (1996). Probabilistic Seismic Hazard Assessment for the State of California, DMG Open-File Report 96-08.
- California Geological Survey (2007). Fault-Rupture Hazard Zones in California, Special Publication 42, Interim Revision 2007.
- California Geological Survey (2008). Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117A.
- California Geological Survey (2003). State of California Seismic Hazard Zones, Hayward Quadrangle, Official Map.
- California Geological Survey (2003). Seismic Hazard Zone Report for the Hayward 7.5-Minute Quadrangle, Alameda County, California, Report 091
- Cetin, K.O., Bilge, H.T., Wu, J., Kammerer, A.M., and Seed, R.B., (2009). Probabilistic Model for the Assessment of Cyclically Induced Reconsolidation (Volumetric) Settlements, ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vo. 135, No. 3, March 1.
- Field, E.H., and 2014 Working Group on California Earthquake Probabilities, (2015). UCERF3: A new earthquake forecast for California’s complex fault system: U.S. Geological Survey 2015-3009, 6 p., <http://dx.doi.org/10.3133/fs20153009>.
- Graymer, R.W., Moring, B.C., Saucedo, G.J., Wentworth, C.M., Brabb, E.E., and Knudsen, K.L (2006). Geologic Map of the San Francisco Bay Region, U.S. Geological Survey Scientific Investigations Map 2918
- Interlocking Concrete Pavement Institute (2005). “Permeable Interlocking Concrete Pavements, Selection-Design-Construction-Maintenance,” Third Edition.
- Ishihara, K. (1985): Stability of natural deposits during earthquakes, Proc., 11th ICSMFE, Vol.1, 321-376.
- Ishihara, K. and Yoshimine, M., 1992, Evaluation of settlements in sand deposits following liquefaction during earthquakes: Soils and Foundations, 32(1), p.173-188.

Jennings, C.W. (1994). Fault Activity Map of California and Adjacent Areas with Locations and Ages of Recent Volcanic Eruptions: California Division of Mines and Geology Geologic Data Map No. 6, scale 1: 750,000.

Robertson, P.K. (2009). “Performance based earthquake design using the CPT”, Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering – from case history to practice, IS-Tokyo, June 2009.

Robertson, P.K. (2009). “Interpretation of Cone Penetration Tests - A Unified Approach”, Canadian Geotechnical Journal, Vol. 46, No. 11, pp 1337-1355.

Robertson, P.K. (2010). Evaluation of flow liquefaction and liquefied strength using the Cone Penetration Test. ASCE J. Geotech. Geoenviron. Eng. Vol. 136, No.6, pp 842-853.

Rockridge Geotechnical (2015). Preliminary Geotechnical Investigation, Proposed Improvements, Fire Station #6, 1401 West Winton Avenue, Hayward, California. December 14. Project No. 15-919B

Rockridge Geotechnical (2015). Preliminary Geotechnical Investigation, Fire Training Center, 1401 West Winton Avenue, Hayward, California. December 14. Project No. 15-919B

Topozada, T.R. and Borchardt G. (1998). “Re-evaluation of the 1936 “Hayward Fault” and the 1838 San Andreas Fault Earthquakes.” Bulletin of Seismological Society of America, 88(1), 140-159.

U.S. Geological Survey (2008). The Uniform California Earthquake Rupture Forecast, Version 2 (UCERF 2): prepared by the 2007 Working Group on California Earthquake Probabilities, U.S. Geological Survey Open File Report 2007-1437.

U.S. Geological Survey (2014). Uniform California earthquake rupture forecast, version 3 (UCERF3)—The time-independent model: U.S. Geological Survey Open-File Report 2013–1165, 97 p.

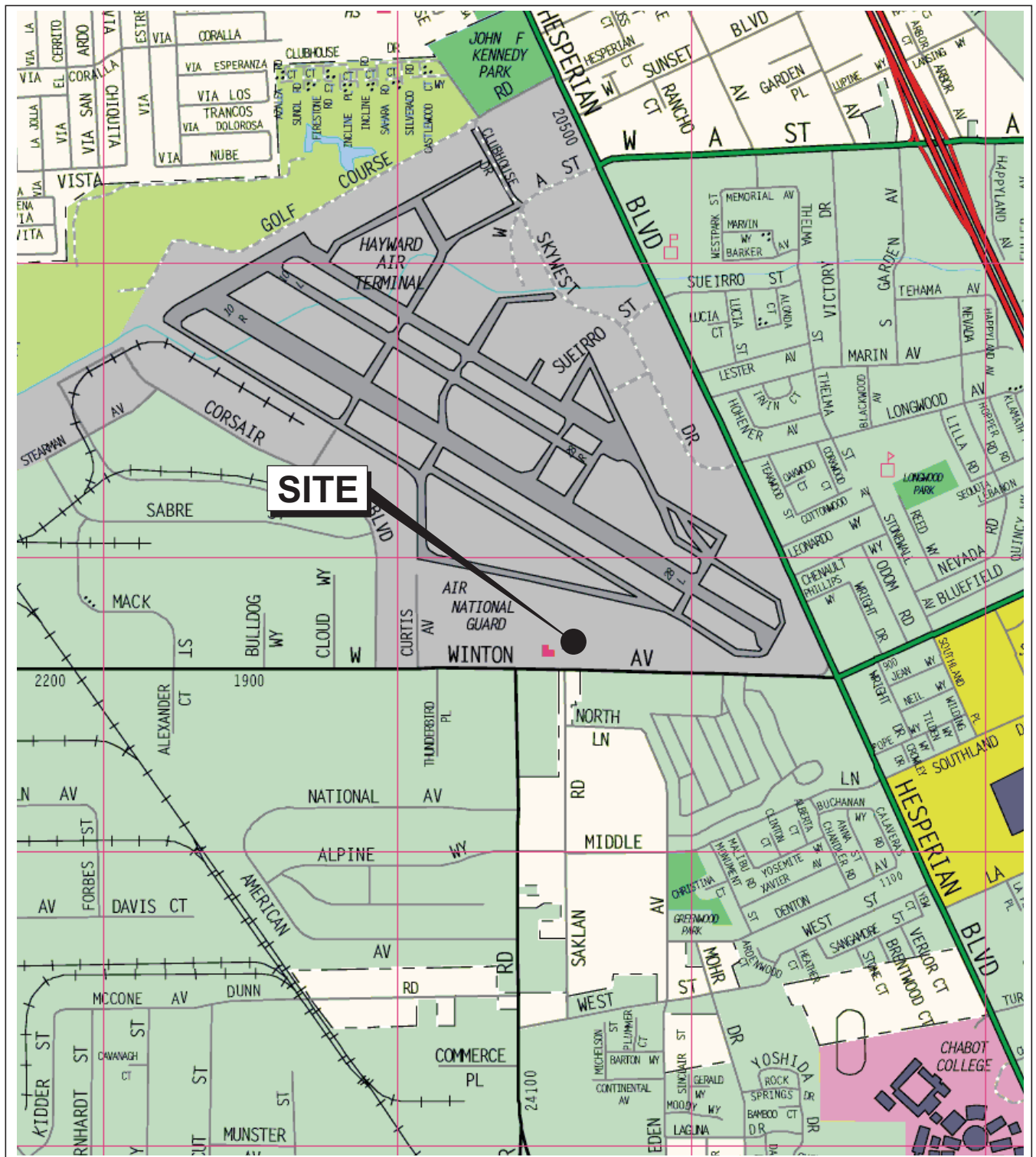
Wire Reinforcement Institute (1996). Design of Slab-On-Ground Foundations, An Update, TF 700-R-03 Update, March.

Woodward-Clyde Consultants (1975). Geotechnical Investigation for the Proposed Fire Station No. 6, West Winton Avenue and Saklan Road, Hayward, California. January 14. Project No. S-13345

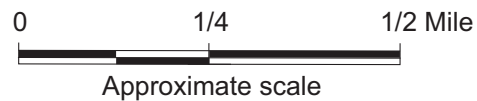
Youd, T.L., Idriss, I.M., Andrus, R.D., Arango, I., Castro, G., Christian, J.T., Dobry, R., Finn, W.D.L., Harder, L.F., Hynes, M.E., Ishihara, K., Koester, J., Liao, S., Marcuson III, W.F., Martin, G.R., Mitchell, J.K., Moriwaki, Y., Power, M.S., Robertson, P.K., Seed, R., and Stokoe, K.H., Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshop on Evaluation of Liquefaction Resistance of Soils, ASCE, Journal of Geotechnical & Geoenvironmental Engineering, Vol. 127, October, pp 817-833

Zhang, G., Robertson, P.K., Brachman, R., (2002). "Estimating Liquefaction Induced Ground Settlements from the CPT", Canadian Geotechnical Journal, 39: pp 1168-1180.

FIGURES



Base map: The Thomas Guide
Alameda County
2002



HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California







SITE LOCATION MAP

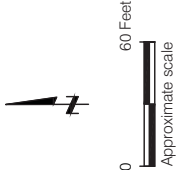
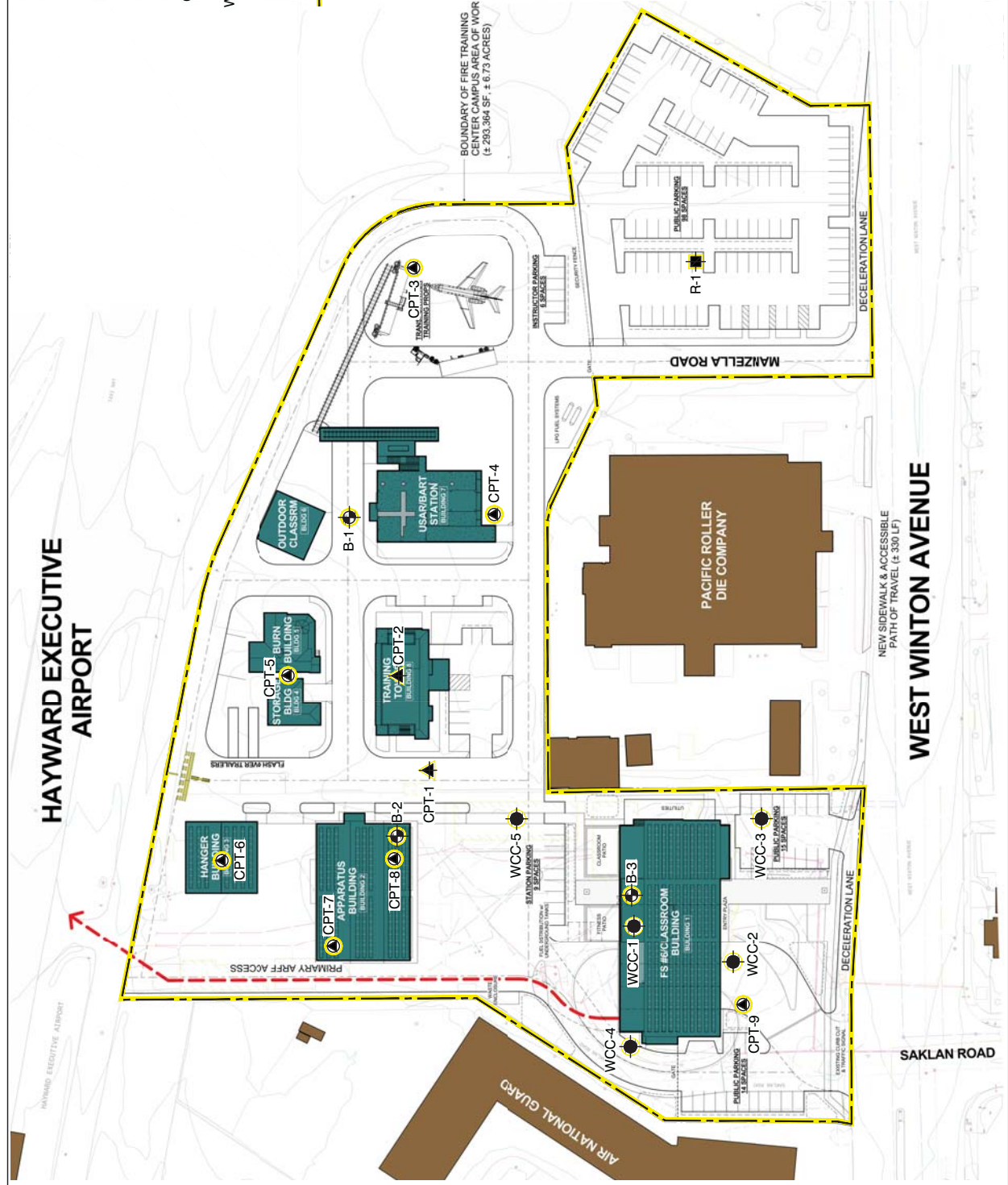
 **ROCKRIDGE**
GEOTECHNICAL

Date 05/12/17 Project No. 15-919B Figure 1

HAYWARD EXECUTIVE AIRPORT

EXPLANATION

-  CPT-3
Approximate location of cone penetration test by Rockridge Geotechnical Inc., April 2017
-  B-1
Approximate location of boring by Rockridge Geotechnical Inc., April 2017
-  CPT-1
Approximate location of cone penetration test by Rockridge Geotechnical Inc., October 2015
-  WCC-1
Approximate location of boring by Woodward-Clyde Consultants, 1975
-  R-1
Approximate location of R-Value sample by Rockridge Geotechnical Inc., April 2017
-  Site Boundary

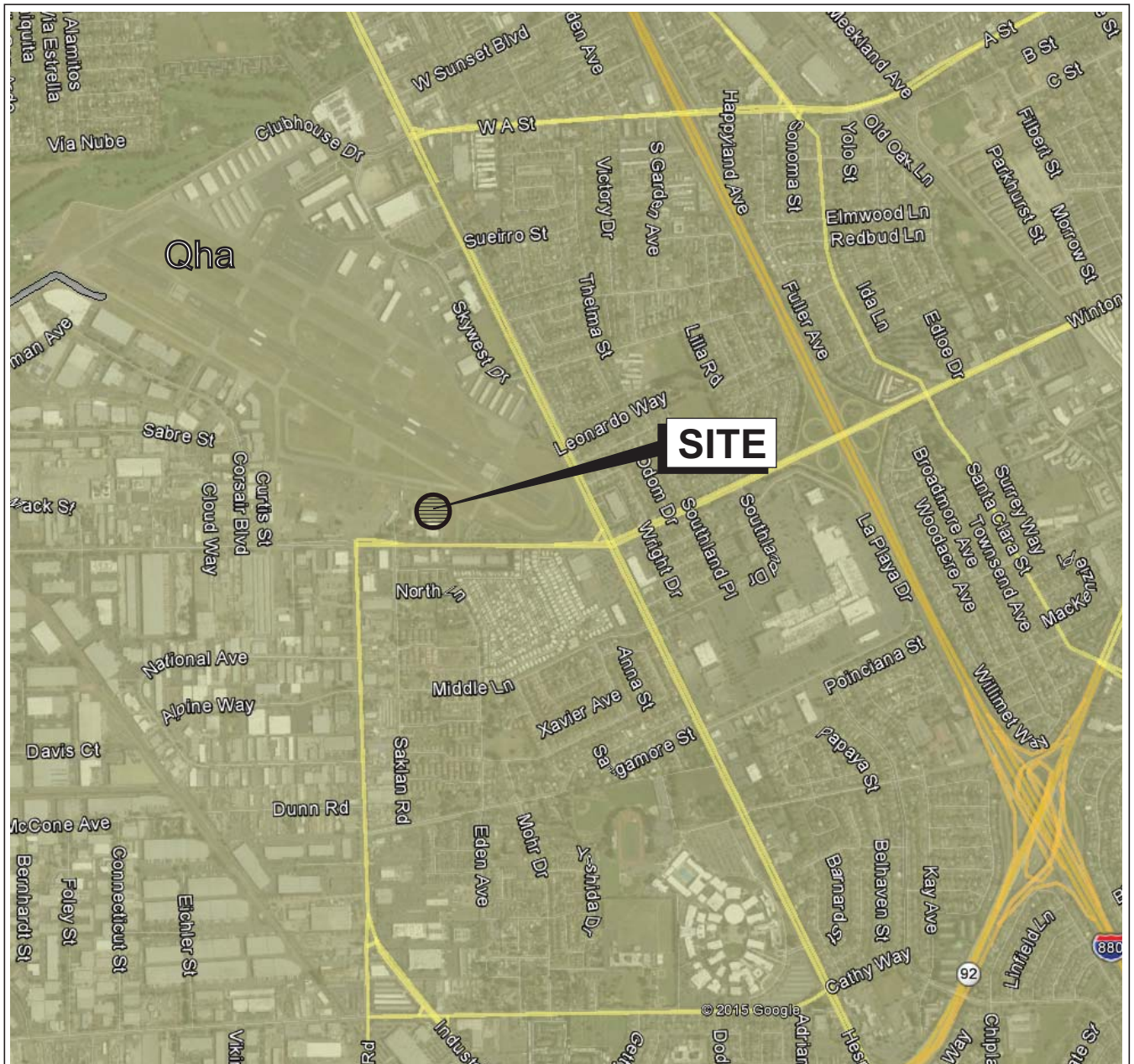


Reference: Base map from a drawing titled "Campus Master Plan", by Ross Drulis Cusenbery Architecture, dated February 7, 2017.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California

SITE PLAN
Date: 05/23/17 | Project No. 15-919B | Figure 2

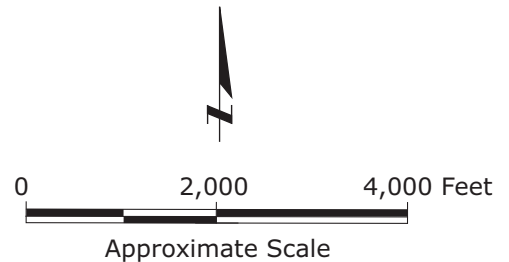




Base map: Google Earth, 2016.
 Geology map: Graymer et al. 2006 (USGS)

EXPLANATION

- Qha Alluvium (Holocene)
- Geologic contact:
dashed where approximate and dotted where concealed, queried where uncertain



HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California

REGIONAL GEOLOGIC MAP



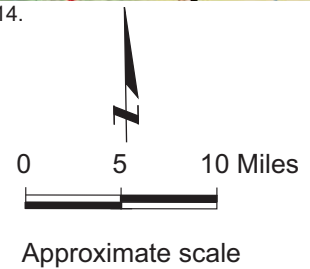
Date 05/15/17 Project No. 15-919B Figure 3



Base Map: U.S. Geological Survey (USGS), National Seismic Hazards Maps - Fault Sources, 2014.

EXPLANATION

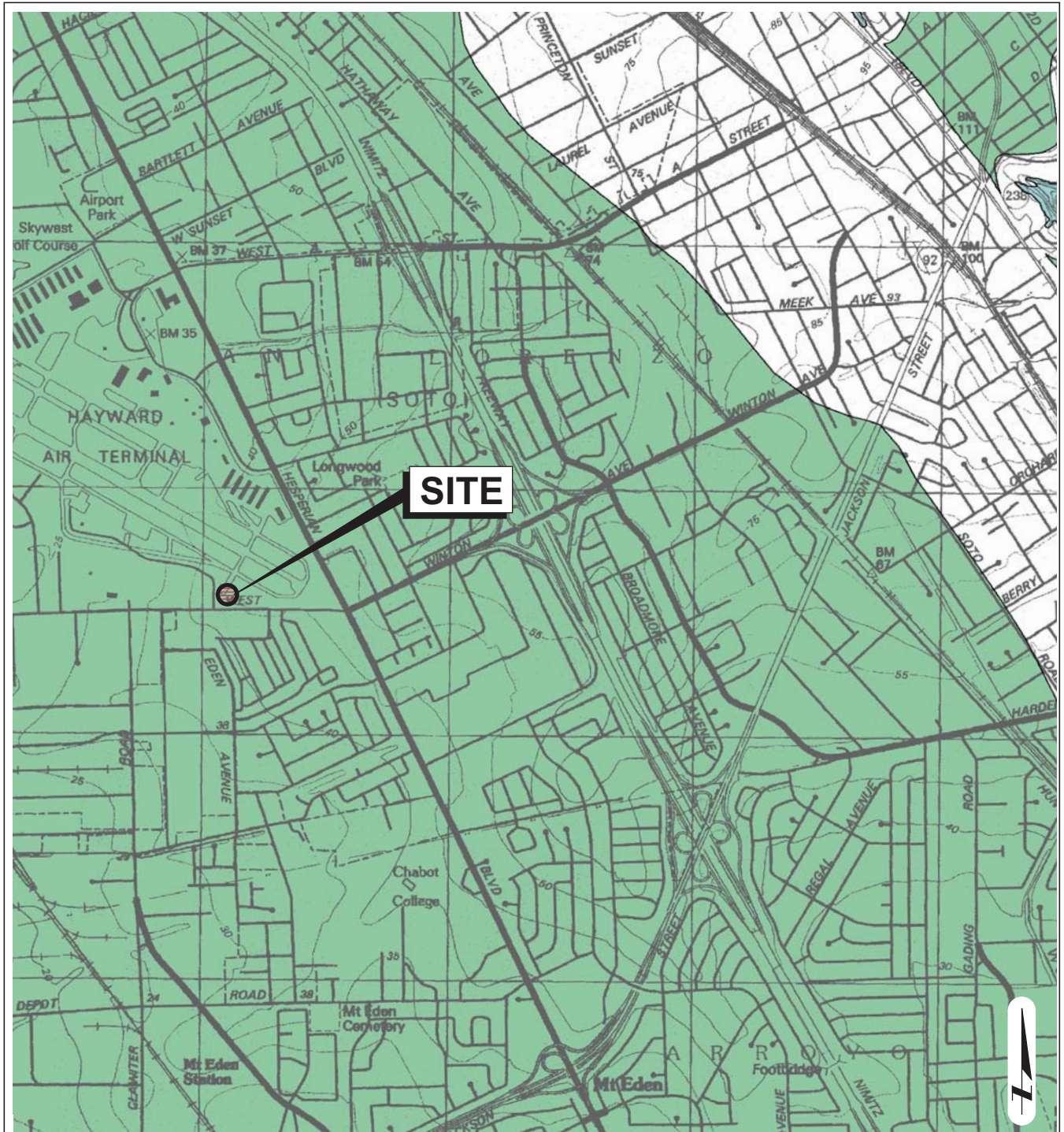
- Strike slip
- Thrust (Reverse)
- Normal



HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California

REGIONAL FAULT MAP





EXPLANATION



Liquefaction; Areas where historic occurrence of liquefaction, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.



Earthquake-Induced Landslides; Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical, and subsurface water conditions indicate a potential for permanent ground displacements.

0 2000 4000 Feet



Approximate scale

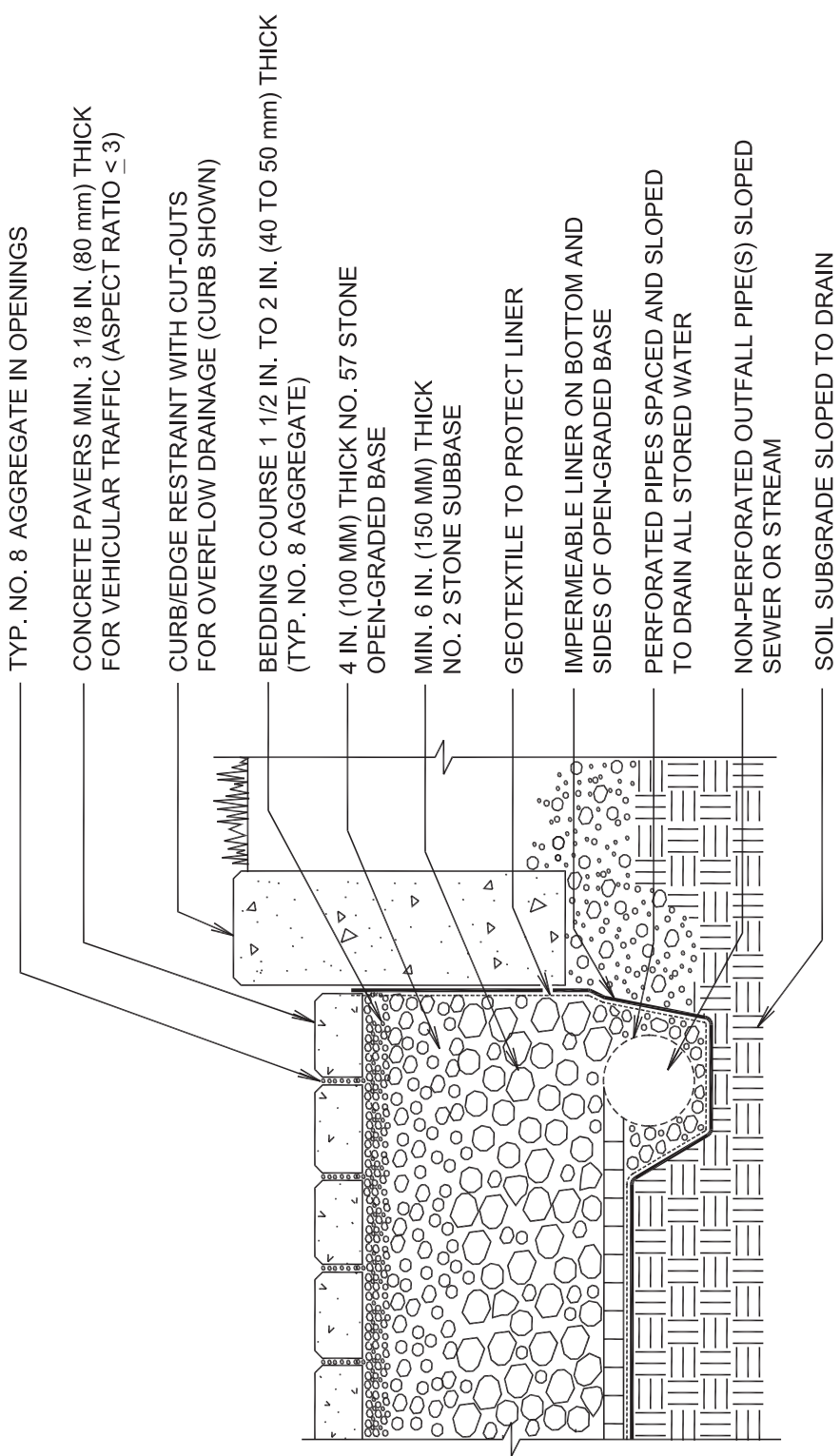
Reference:
State of California "Seismic Hazard Zones"
Hayward Quadrangle.
Released on July 2, 2003

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California



SEISMIC HAZARDS ZONE MAP

Date 05/12/17 Project No. 15-919B Figure 5



NOTES:

1. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.
2. PERFORATED PIPES MAY BE RAISED FOR WATER STORAGE FROM LARGE RAIN EVENTS WITH OUTLET(S) AT LINER BOTTOM TO DRAIN SMALL RAIN EVENTS.

References:
 Interlocking Concrete Pavement Institute: ICPI-70 Permeable Pavement with No Exfiltration to Soil Subgrade, 2013

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California

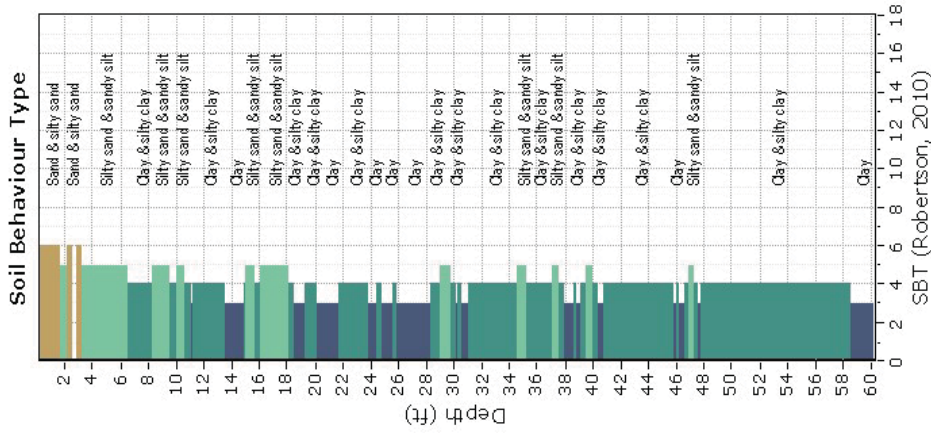
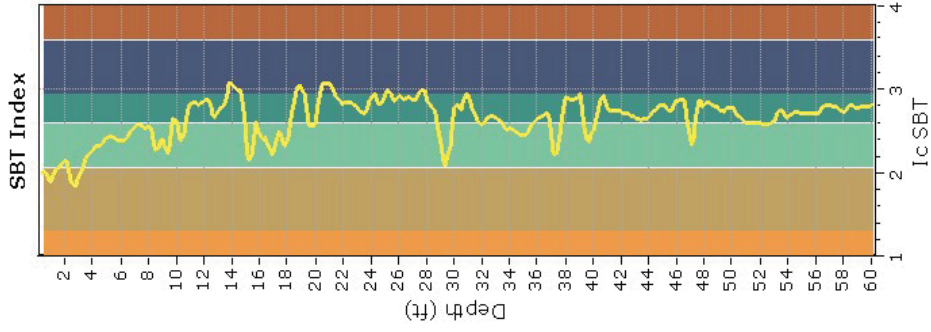
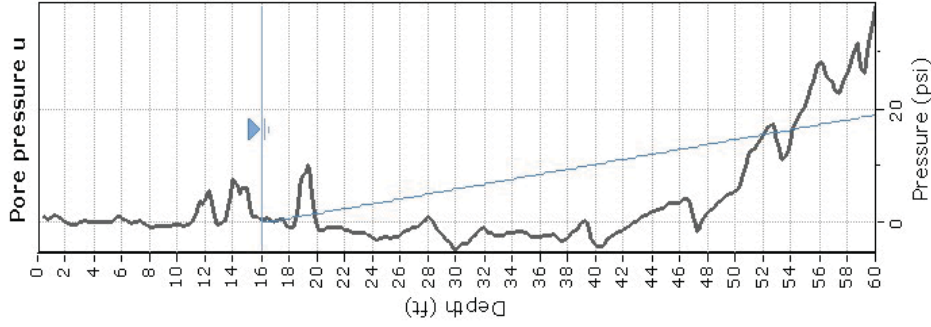
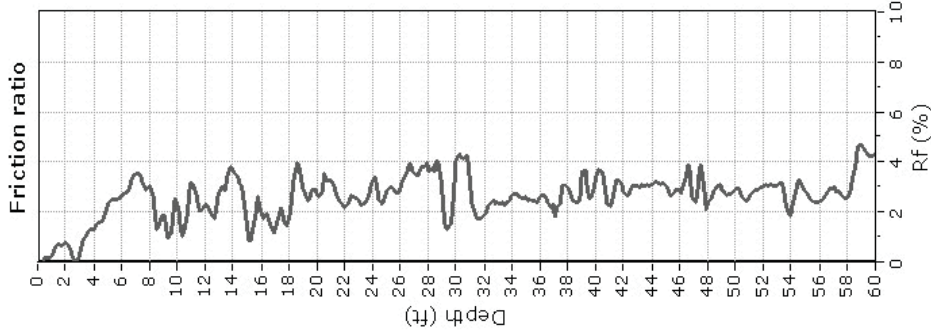
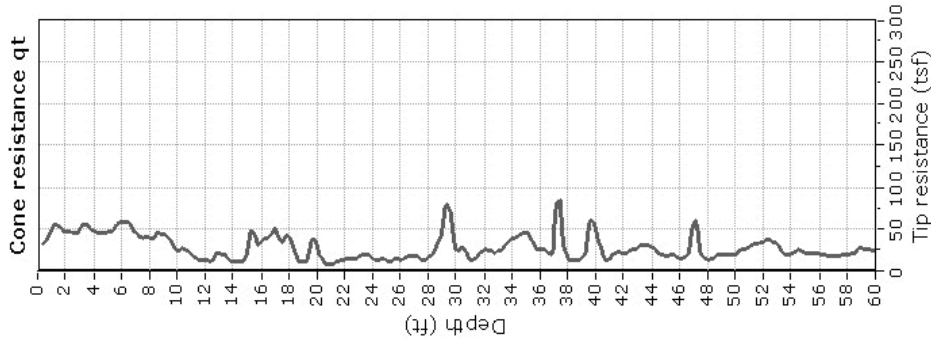


ROCKRIDGE
GEOTECHNICAL

GENERALIZED ICPI PERMEABLE PAVER DETAIL FOR NO EXFILTRATION

Date 05/22/17 Project No. 15-919B Figure 6

APPENDIX A
Cone Penetration Test Results



SBT legend

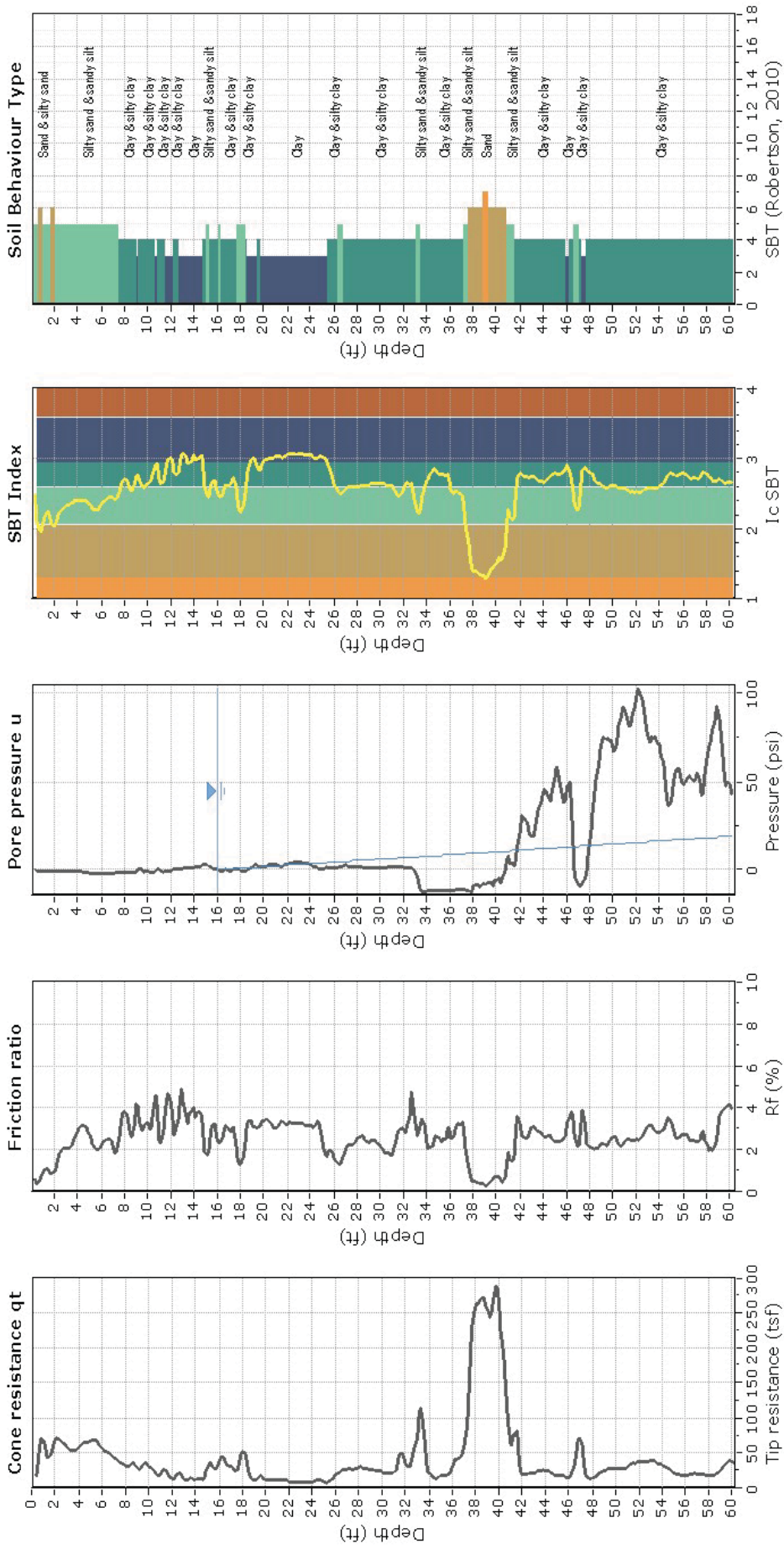
- 1. Sensitive fine grained
- 2. Organic material
- 3. Clay to silty clay
- 4. Clayey silt to silty clay
- 5. Silty sand to sandy silt
- 6. Clean sand to silty sand
- 7. Gravely sand to sand
- 8. Very stiff sand to clayey sand
- 9. Very stiff fine grained

Total depth: 60.04 ft, Date: 10/01/2015
 Measured Groundwater Depth: 16 feet
 Cone Operator: Middle Earth Geo Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CONE PENETRATION TEST RESULTS
CPT-1



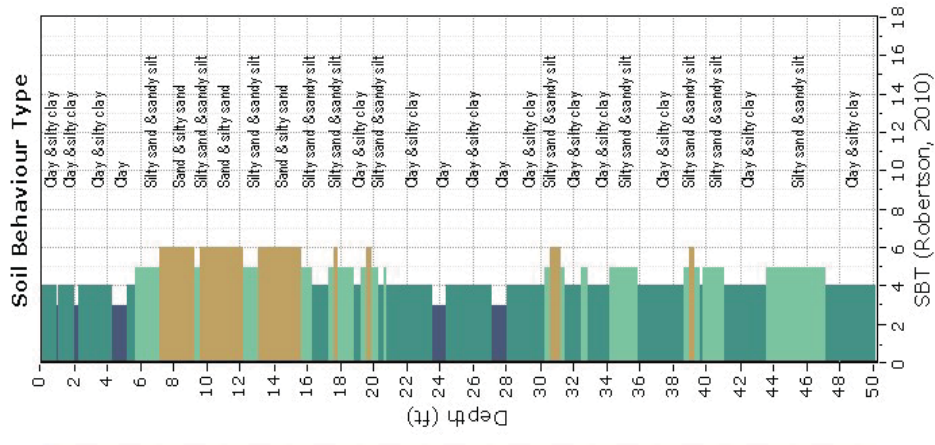
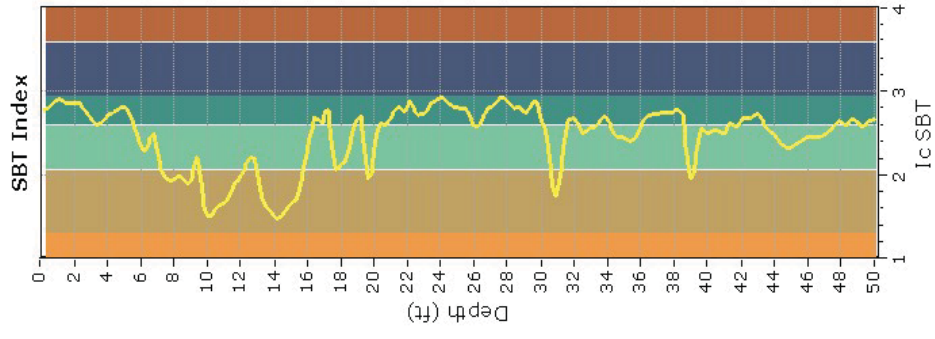
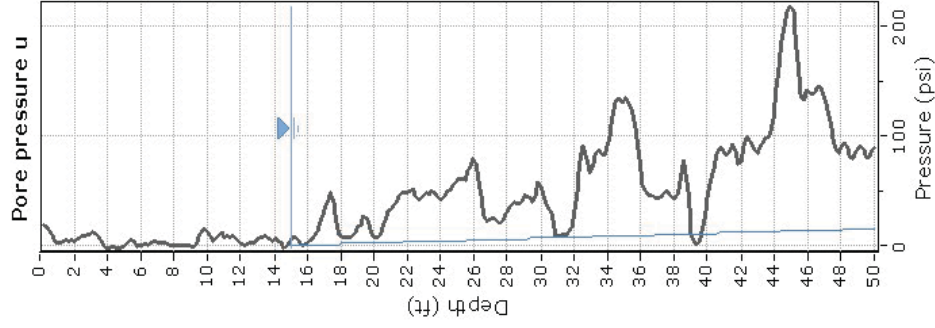
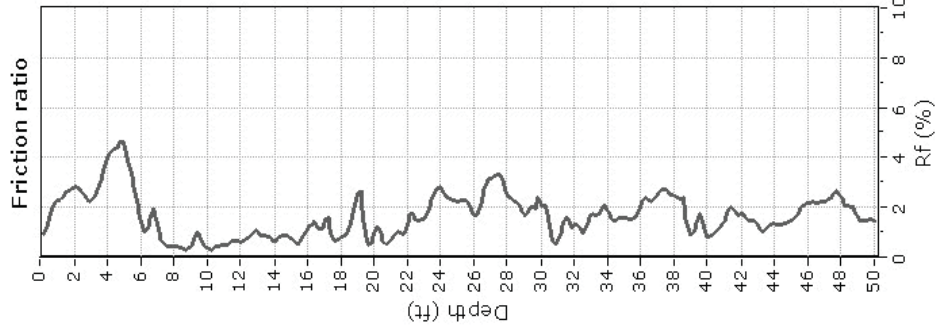
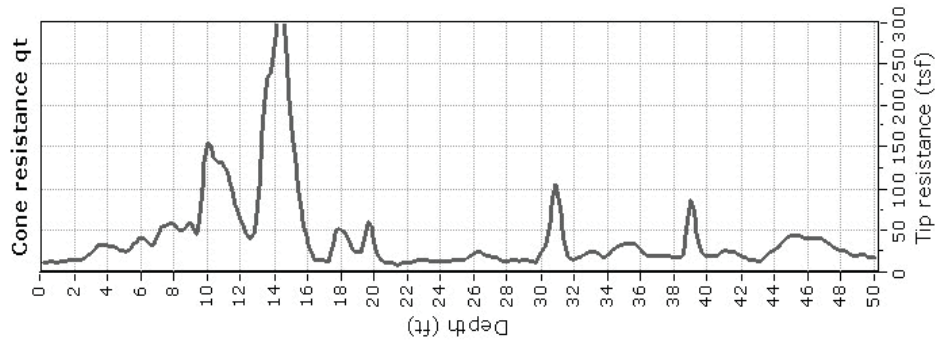
- SBT legend**
- 1. Sensitive fine grained
 - 2. Organic material
 - 3. Clay to silty clay
 - 4. Clayey silt to silty clay
 - 5. Silty sand to sandy silt
 - 6. Clean sand to silty sand
 - 7. Gravely sand to sand
 - 8. Very stiff sand to clayey sand
 - 9. Very stiff fine grained

Total depth: 60.21 ft, Date: 10/01/2015
 Measured Groundwater Depth: 16 feet
 Cone Operator: Middle Earth Geo Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CONE PENETRATION TEST RESULTS
CPT-2



SBT legend

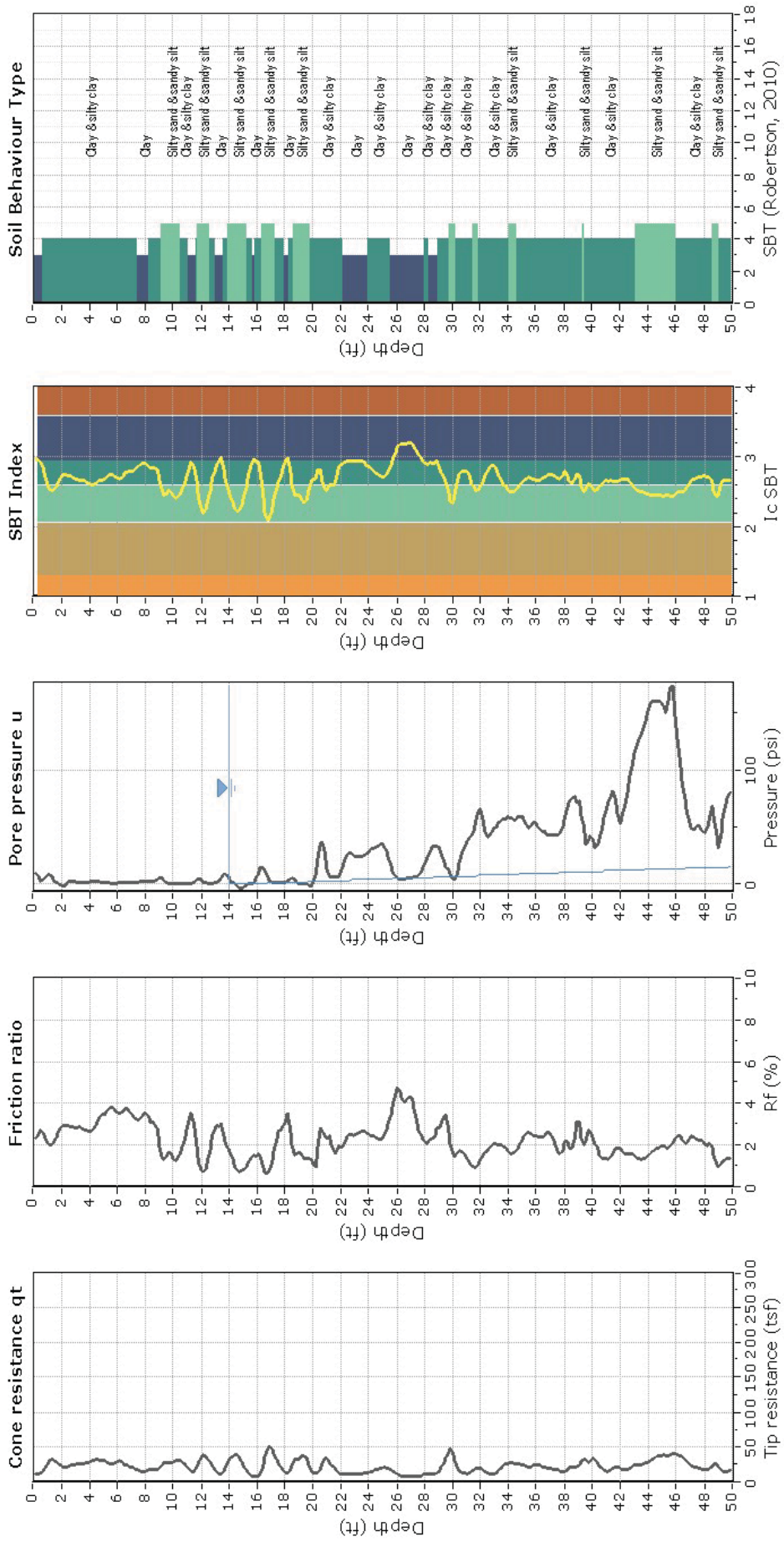
- 1. Sensitive fine grained
- 2. Organic material
- 3. Clay to silty clay
- 4. Clayey silt to silty clay
- 5. Silty sand to sandy silt
- 6. Clean sand to silty sand
- 7. Gravely sand to sand
- 8. Very stiff sand to clayey sand
- 9. Very stiff fine grained

Total depth: 50.03 ft, Date: 4/10/2017
 Measured Groundwater Depth: 15 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CONE PENETRATION TEST RESULTS
CPT-3

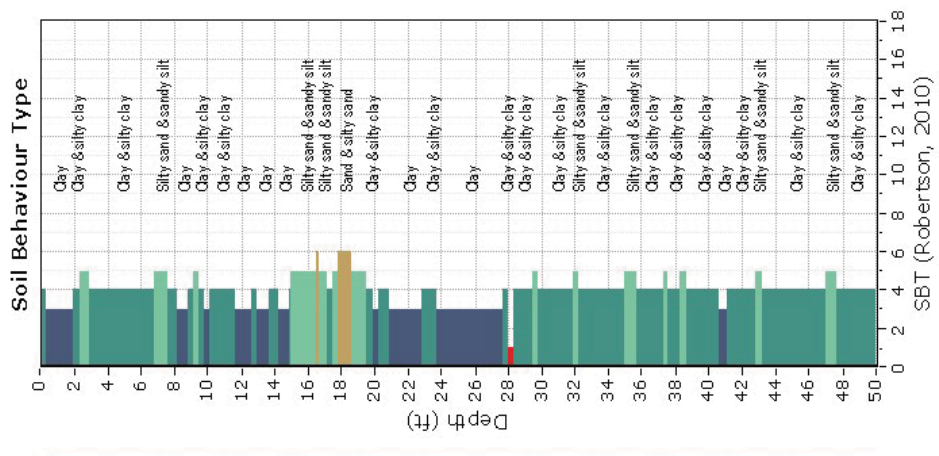
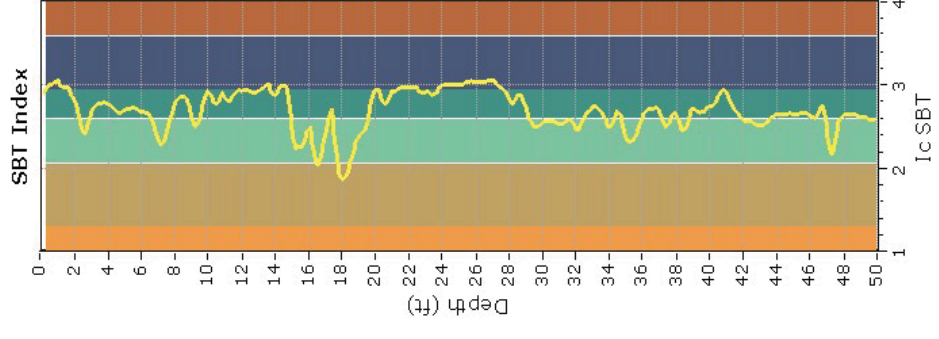
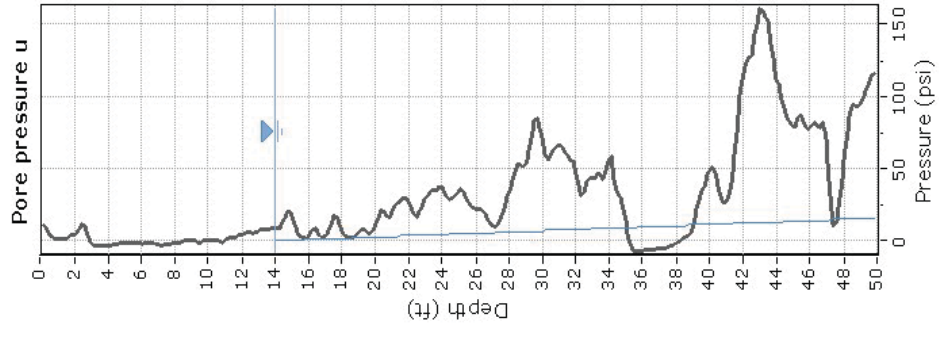
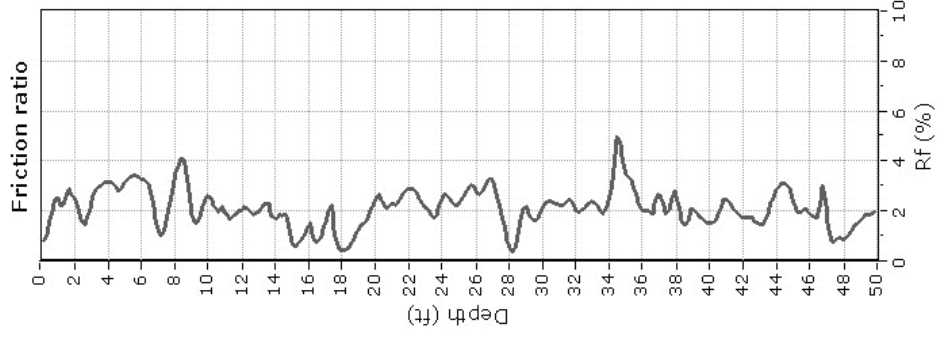
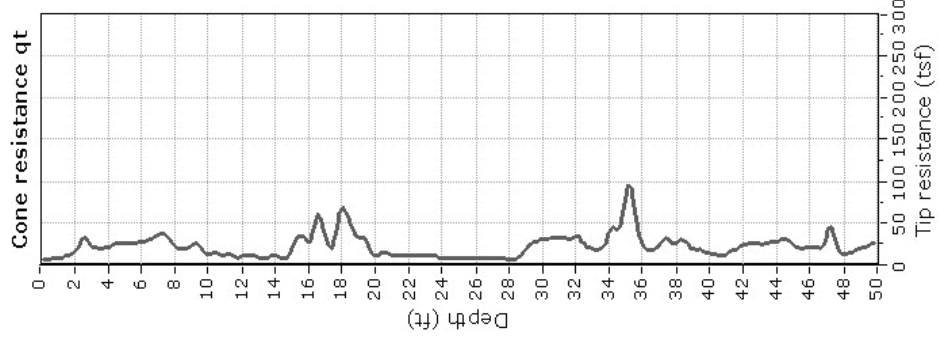


Total depth: 49.87 ft, Date: 4/10/2017
 Estimated Groundwater Depth: 14 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California

ROCKRIDGE
 GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-4



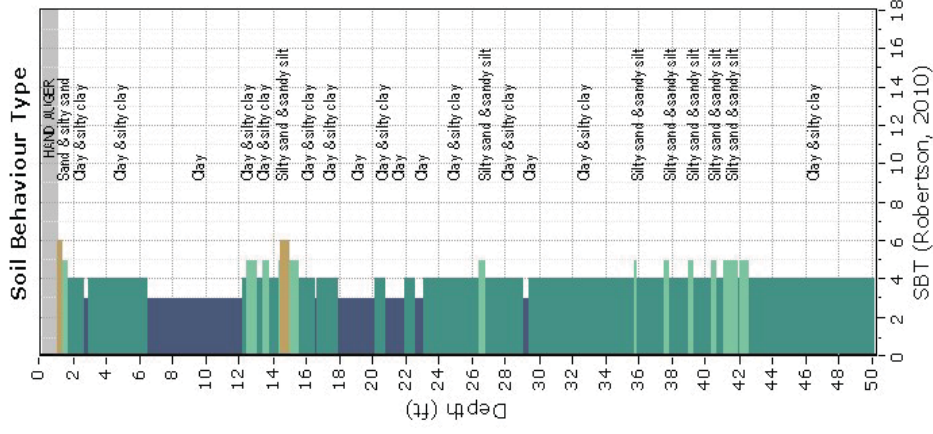
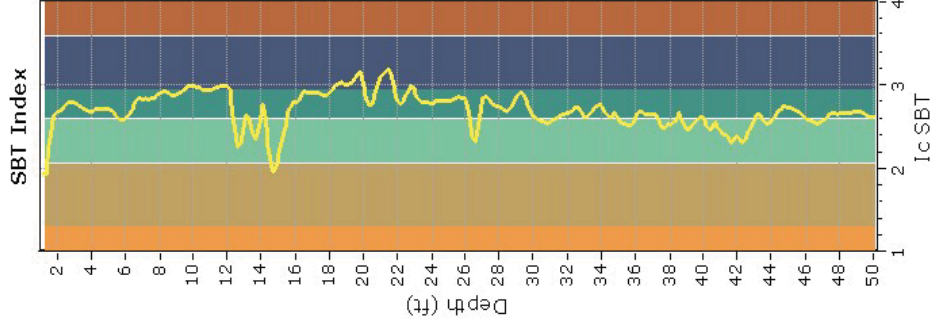
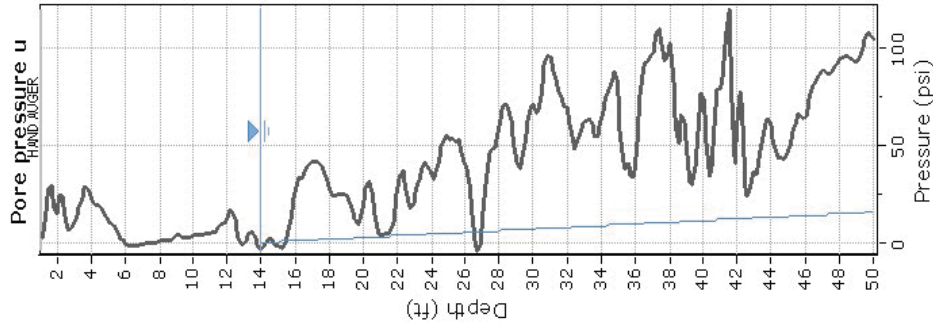
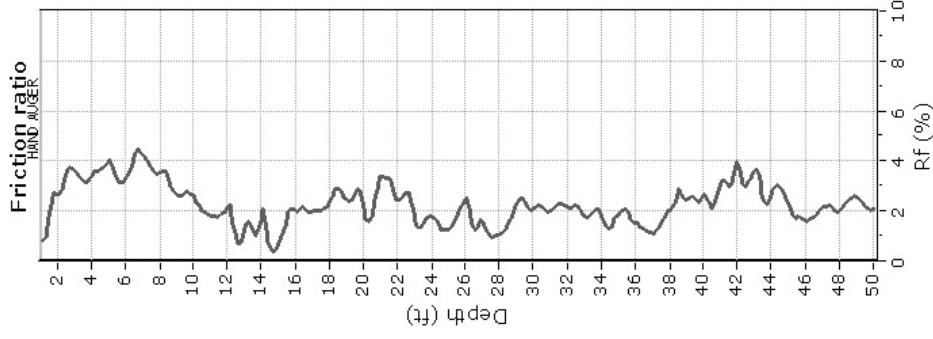
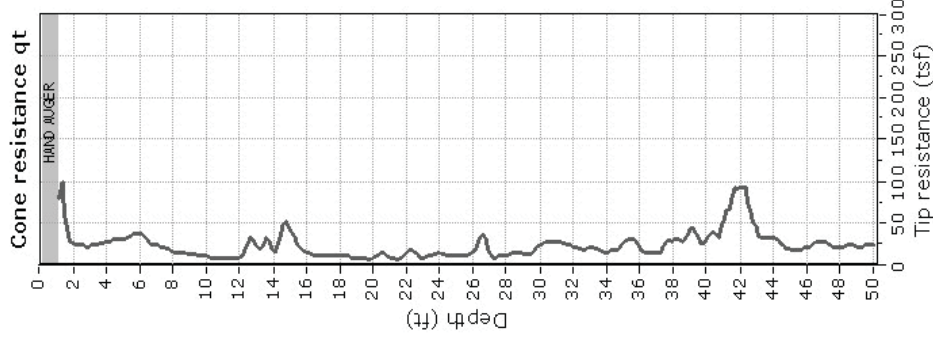
- SBT legend**
- 1. Sensitive fine grained
 - 2. Organic material
 - 3. Clay to silty clay
 - 4. Clayey silt to silty clay
 - 5. Silty sand to sandy silt
 - 6. Clean sand to silty sand
 - 7. Gravely sand to sand
 - 8. Very stiff sand to clayey sand
 - 9. Very stiff fine grained

Total depth: 49.87 ft, Date: 4/10/2017
 Estimated Groundwater Depth: 14 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California

ROCKRIDGE
 GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-5



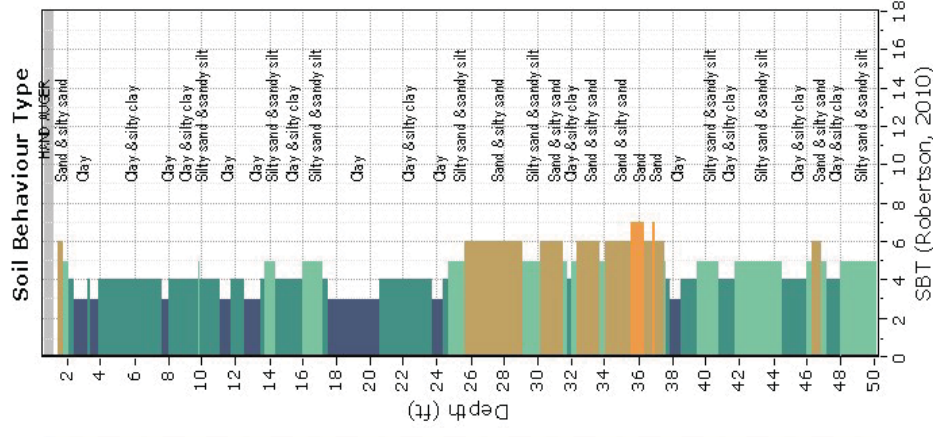
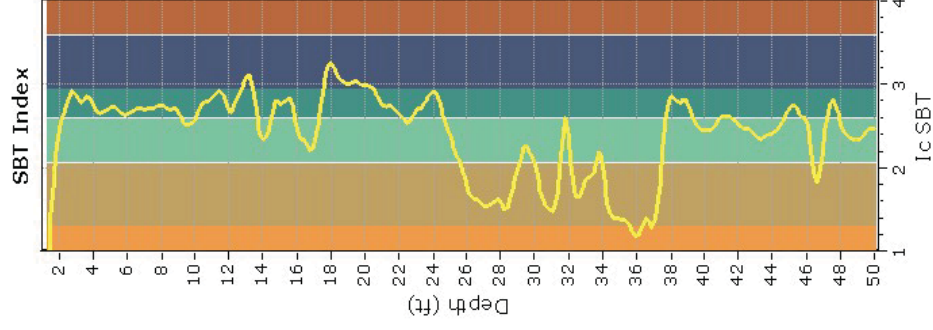
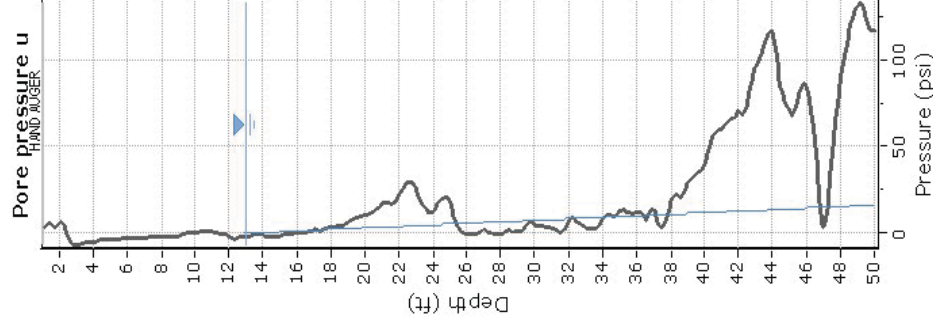
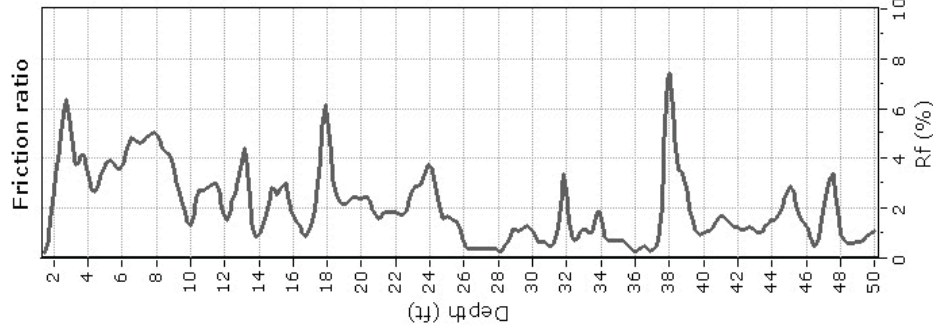
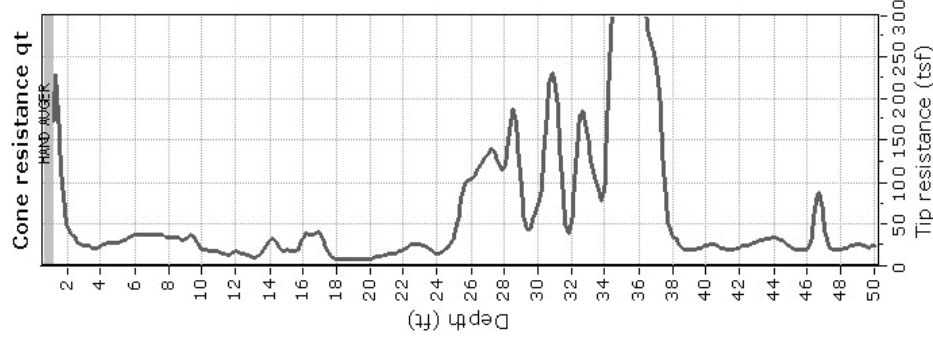
- SBT legend**
- 1. Sensitive fine grained
 - 2. Organic material
 - 3. Clay to silty clay
 - 4. Clayey silt to silty clay
 - 5. Silty sand to sandy silt
 - 6. Clean sand to silty sand
 - 7. Gravely sand to sand
 - 8. Very stiff sand to clayey sand
 - 9. Very stiff fine grained

Total depth: 50.03 ft, Date: 4/10/2017
 Estimated Groundwater Depth: 14 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CONE PENETRATION TEST RESULTS
CPT-6



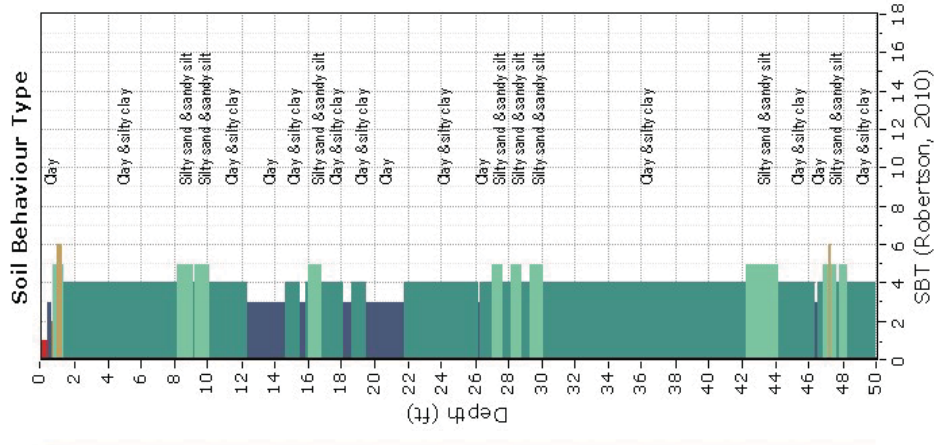
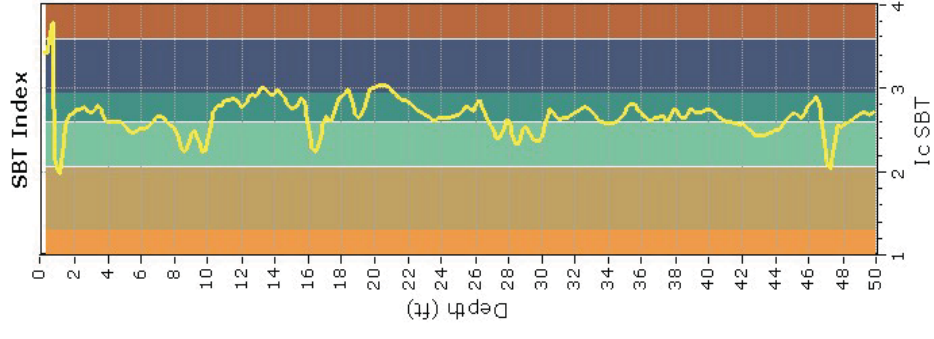
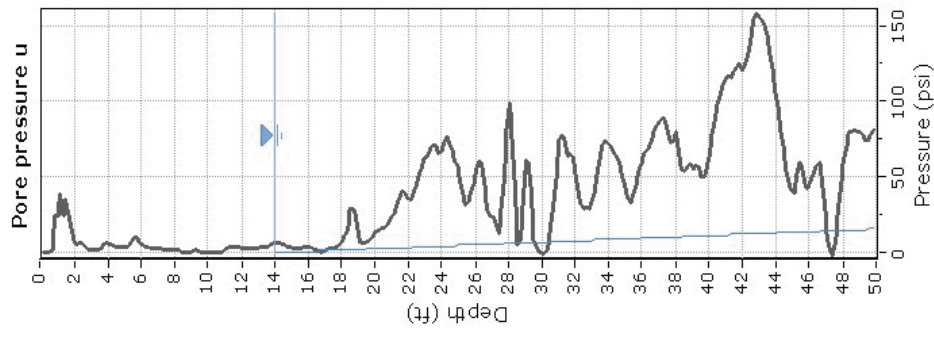
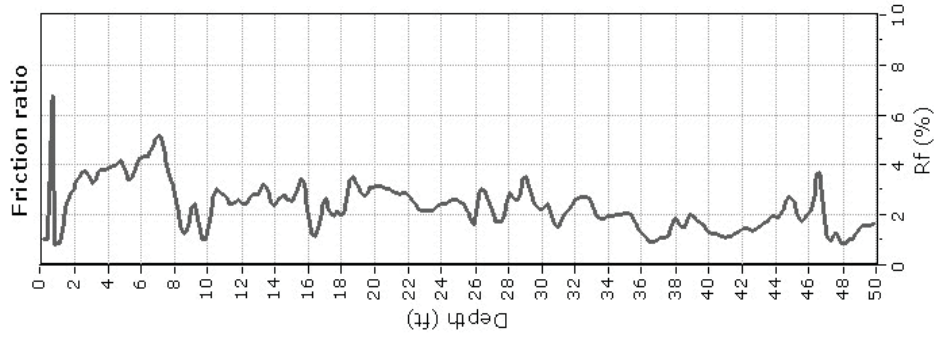
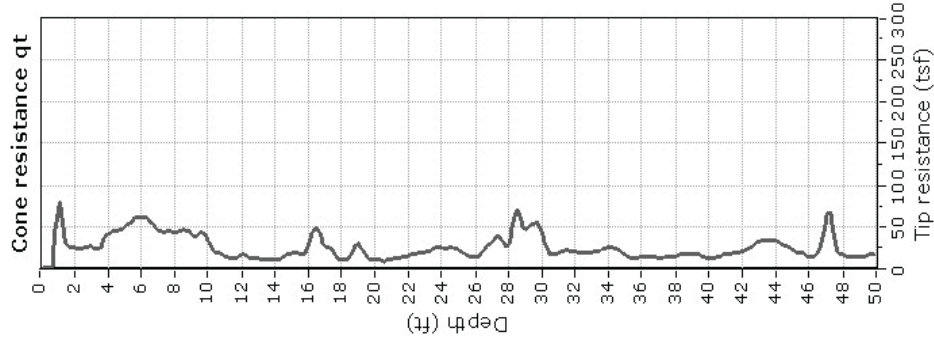
- SBT legend**
- 1. Sensitive fine grained
 - 2. Organic material
 - 3. Clay to silty clay
 - 4. Clayey silt to silty clay
 - 5. Silty sand to sandy silt
 - 6. Clean sand to silty sand
 - 7. Gravely sand to sand
 - 8. Very stiff sand to clayey sand
 - 9. Very stiff fine grained

Total depth: 50.03 ft, Date: 4/10/2017
 Measured Groundwater Depth: 13 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CONE PENETRATION TEST RESULTS
CPT-7



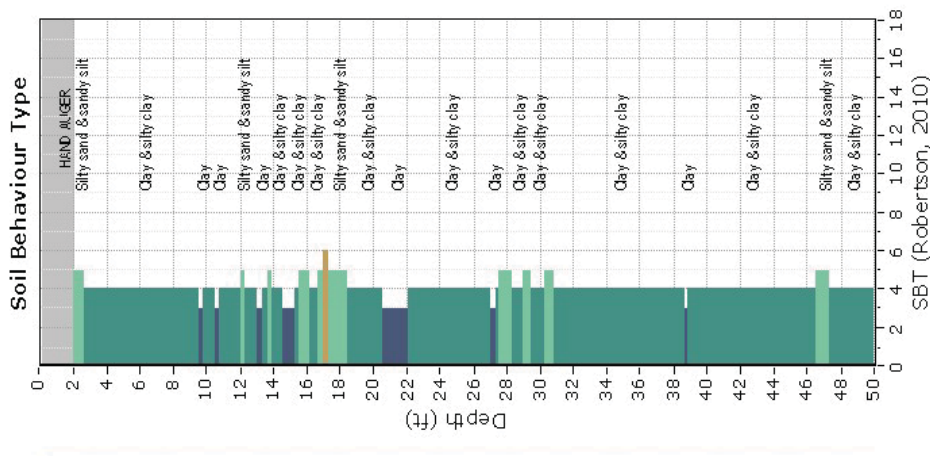
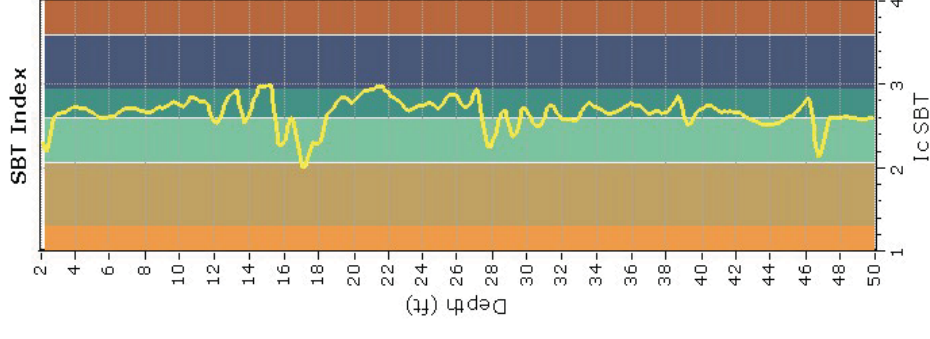
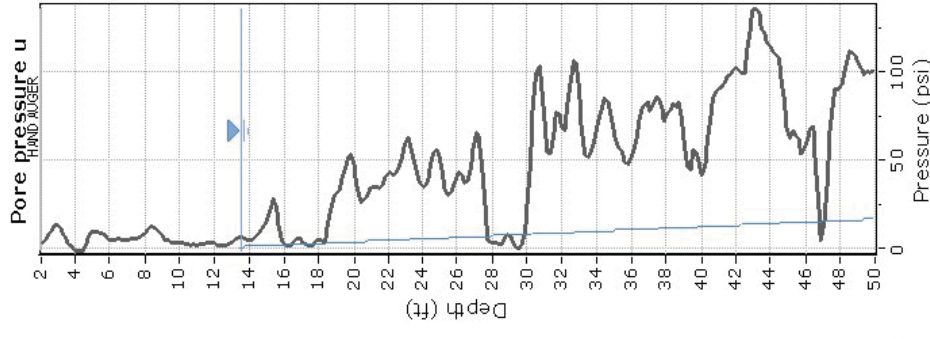
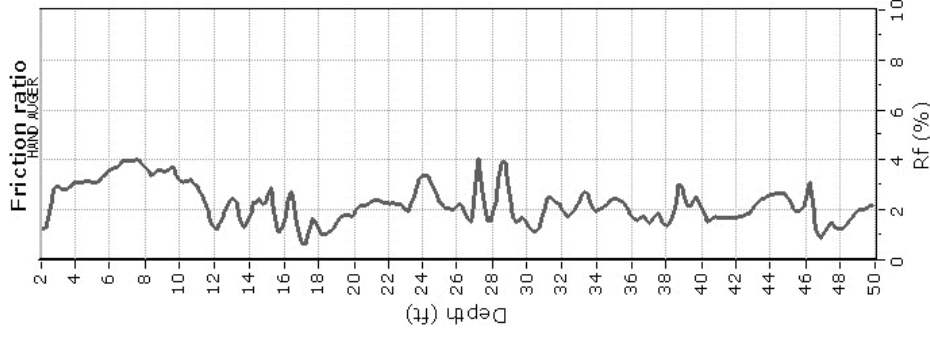
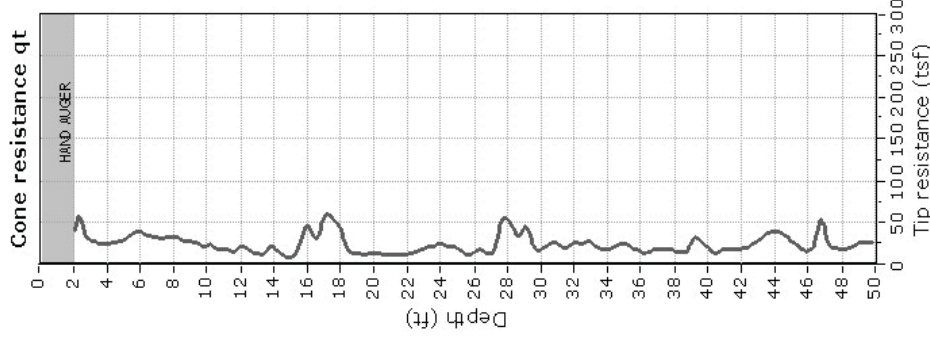
- SBT legend**
- 1. Sensitive fine grained
 - 2. Organic material
 - 3. Clay to silty clay
 - 4. Clayey silt to silty clay
 - 5. Silty sand to sandy silt
 - 6. Clean sand to silty sand
 - 7. Gravely sand to sand
 - 8. Very stiff sand to clayey sand
 - 9. Very stiff fine grained

Total depth: 49.87 ft, Date: 4/10/2017
 Estimated Groundwater Depth: 14 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CONE PENETRATION TEST RESULTS
CPT-8



- 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. Gravely sand to sand
 - 8. Very stiff sand to clayey sand
 - 9. Very stiff fine grained

Total depth: 49.87 ft, Date: 4/10/2017
 Measured Groundwater Depth: 13.5 feet
 Cone Operator: Gregg Drilling and Testing, Inc.

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California

ROCKRIDGE
 GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-9

APPENDIX B
Logs of Test Borings

PROJECT: **HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER**
1401 WEST WINTON AVENUE
 Hayward, California

Log of Boring B-1

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2
 Date started: 4/10/17 Date finished: 4/10/17
 Drilling method: Hollow Stem Auger
 Hammer weight/drop: 140 lbs./30 inches Hammer type: Automatic Hammer
 Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT), Shelby Tube (ST)

Logged by: C. Proto

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	Blows/6"	SPT N-Value ¹								
1						TOPSOIL dark brown, moist, with rootlets						
2						CLAY with SAND (CL) brown with dark brown mottling, very stiff, moist, fine-grained sand, trace rootlets					16.8	111
3	S&H		5	22	CL							
4			12									
5			16									
6	S&H		8	18	CL	SANDY CLAY (CL) yellow-brown, very stiff, moist, with fine-grained sand, with silt						
7			10									
8	SPT		3	18		Corrosion Test; see Appendix D						
9			6									
10			7			SAND with SILT (SP-SM) yellow-brown, medium dense, moist, fine-grained sand						
11	S&H		7	17	SP-SM	fine- to medium-grained sand, trace fine gravel						
12			10									
13	SPT		4	15								
14			3									
15			8									
16	S&H		2	11	SM	4/10/2017 (during drilling) SILTY SAND (SM) yellow, medium dense, wet, fine-to coarse-grained sand, trace gravel				19.0		
17			7									
18	SPT		3	15		CLAY with SAND (CL) yellow-brown, stiff, wet, fine-grained sand, trace silt						
19			4									
20			7									
21	S&H		2	4		soft to medium stiff LL = 34, PI = 15; see Figure C-5				81	29.2	
22			2									
23			2									
24			4									
25			4									
26	ST		500			light gray, stiff Consolidation Test; see Figure C-1 TxUU Test; see Figure C-2	TxUU	2,500	1,100		28.7	92
27			psi									
28												
29						CLAY with SAND (CL) light gray, stiff, wet, fine-grained sand, with silt						
30												
31	S&H		4	9	CL							
32			5									
			9									

Boring terminated at a depth of 31.5 feet below ground surface.
 Boring backfilled with cement grout.
 Groundwater encountered at a depth of 14 feet during drilling.

¹ S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.8 and 1.35, respectively, to account for sampler type and hammer energy.



Project No.: 15-919B Figure: B-1

ROCKRIDGE 15-919B.GPJ TR.GDT 6/5/17

PROJECT: **HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER**
1401 WEST WINTON AVENUE
 Hayward, California

Log of Boring B-2

Boring location: See Site Plan, Figure 2
 Date started: 4/10/17 Date finished: 4/10/17
 Drilling method: Hollow Stem Auger
 Hammer weight/drop: 140 lbs./30 inches Hammer type: Automatic Hammer
 Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

Logged by: C. Proto

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	Blows/6"	SPT N-Value ¹								
1						3 inches of asphalt concrete						
2						9 inches of aggregate base						
3	GRAB	☒			CL	CLAY (CL) dark brown, stiff to very stiff, moist, with silt, trace fine-grained sand						
4					CL	Corrosion Test; see Appendix D						
5	S&H	■	6	29								
6			14									
7			22		CL	CLAY with SAND (CL) yellow-brown, very stiff, moist						
8												
9												
10						SILTY SAND (SM) yellow to yellow-brown, medium dense, moist to wet, fine-grained sand, trace clay						
11	S&H	●	9	12	SM							
12			7									
13	SPT	●	5	18								
14			7									
15	S&H	■	2									
16			4									
17			4		CL	SANDY CLAY (CL) olive-brown, medium stiff to stiff, wet, fine-grained sand 4/10/2017 (during drilling) LL = 24, PI = 8; see Figure C-5			62	25.3	98	
18	S&H	■	5	9								
19			4									
20			7									
21	SPT	■	2	7								
22			2									
23			3		CL	CLAY (CL) yellow, medium to stiff, wet, with silt, trace fine-grained sand						
24												
25												
26	S&H	■	3	9	CL	CLAY (CL) olive-gray, stiff, wet						
27			4			sample retrieved with sand catcher						
28			7									
29												
30						SANDY CLAY (CL) light gray, medium stiff to stiff, wet, fine-grained sand, with silt LL = 29, PI = 10; see Figure C-5				50	28.4	96
31	S&H	■	3	8	CL							
32			5									
			5									
					SC	CLAYEY SAND (SC) yellow-brown, loose, wet, fine-grained sand, trace clay						
					CL	CLAY with SAND (CL)				82		

ROCKRIDGE 15-919B.GPJ TR.GDT 6/5/17



Project No.: 15-919B Figure: B-2a

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA							
	Sampler Type	Sample	Blows/6"	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft		
33						CLAY with SAND (CL) (continued)								
34						olive-gray, very stiff, wet, with silt, fine-grained sand								
35						LL = 40, PI = 24; see Figure C-5								
36	S&H		4 8 9	14	CL	green-gray, very stiff	TxUU	3,000	2,800			22.6	106	
37														
38														
39						SANDY CLAY (CL)								
40						olive-gray with yellow-brown mottling, stiff, wet, fine-grained sand, trace clay								
41	S&H		4 6 9	12	SC	CLAYEY SAND (SC)								
42						olive-gray with yellow brown mottling, medium dense, wet								
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														
61														
62														
63														
64														

ROCKRIDGE 15-919B.GPJ TR.GDT. 6/5/17

Boring terminated at a depth of 41.5 feet below ground surface.
 Boring backfilled with cement grout.
 Groundwater encountered at a depth of 15 feet during drilling.

¹ S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.8 and 1.35, respectively, to account for sampler type and hammer energy.



PROJECT: **HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER**
1401 WEST WINTON AVENUE
 Hayward, California

Log of Boring B-3

Boring location: See Site Plan, Figure 2
 Date started: 4/10/17 Date finished: 4/10/17
 Drilling method: Hollow Stem Auger
 Hammer weight/drop: 140 lbs./30 inches Hammer type: Automatic Hammer
 Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

Logged by: C. Proto

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	Blows/6"	SPT N-Value								
1						12 inches of asphalt concrete						
2						6 inches of aggregate base						
3	GRAB	⊗				CLAY (CL) dark brown, very stiff, moist, trace sand LL = 41, PI = 25; see Figure C-5						
4					CL	gravel up to 3 inches						
5	S&H	■	5	20		brown					19.4	108
6			11									
7	SPT	▴	5	26		CLAY (CL) brown, very stiff, moist, with silt, trace fine-grained sand						
8			9		CL							
9			10									
10	S&H	■	2	11		stiff						
11			4									
12	SPT	▴	3	9	SC	CLAYEY SAND (SC) yellow, loose, moist, fine-grained sand, with clay						
13			3									
14			4									
15	S&H	■	3	15	CL	CLAY (CL) yellow-brown with brown and yellow-brown mottling, stiff, wet, with silt						
16			6			▽ 4/10/2017 (during drilling)						
17	SPT	▴	4	18	SM	SILTY SAND (SM) yellow-brown, medium dense, wet, fine-grained sand						
18			6									
19			7									
20	S&H	■	3	10		CLAY (CL) yellow-brown with dark brown mottling, medium stiff, wet, with silt TxUU Test; see Figure C-4	TxUU	2,000	975		29.7	93
21			7									
22			7									
23												
24												
25	S&H	■	6	18	CL	olive-gray with brown mottling, grading light gray, very stiff, trace fine-grained sand (sample driven without liners)						
26			10									
27			12									
28												
29												
30	S&H	○	4	11		stiff						
31			6									
32			8									

ROCKRIDGE 15-919B.GPJ TR.GDT 6/5/17



DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA												
	Sampler Type	Sample	Blows/6"	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft							
33						CLAY (CL) (continued)													
34																			
35																			
36	S&H		3	9	CL	olive-gray with brown mottling													
37			6																
38																			
39																			
40																			
41	S&H		4	14		with SILTY SAND (SM) inclusions													
42			9																
43																			
44																			
45																			
46																			
47																			
48																			
49																			
50																			
51																			
52																			
53																			
54																			
55																			
56																			
57																			
58																			
59																			
60																			
61																			
62																			
63																			
64																			

ROCKRIDGE 15-919B.GPJ TR.GDT. 6/5/17

Boring terminated at a depth of 41.5 feet below ground surface.
 Boring backfilled with cement grout.
 Groundwater encountered at a depth of 16 feet during drilling.

¹ S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.8 and 1.35, respectively, to account for sampler type and hammer energy.



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

SAMPLE DESIGNATIONS/SYMBOLS

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	76.2 to 4.76
	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.075
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40 No. 40 to No. 200	2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

- Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. 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

Unstabilized groundwater level

Stabilized groundwater level

SAMPLER TYPE

- | | |
|--|---|
| <p>C Core barrel</p> <p>CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter</p> <p>D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube</p> <p>O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube</p> | <p>PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube</p> <p>S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter</p> <p>SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter</p> <p>ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure</p> |
|--|---|

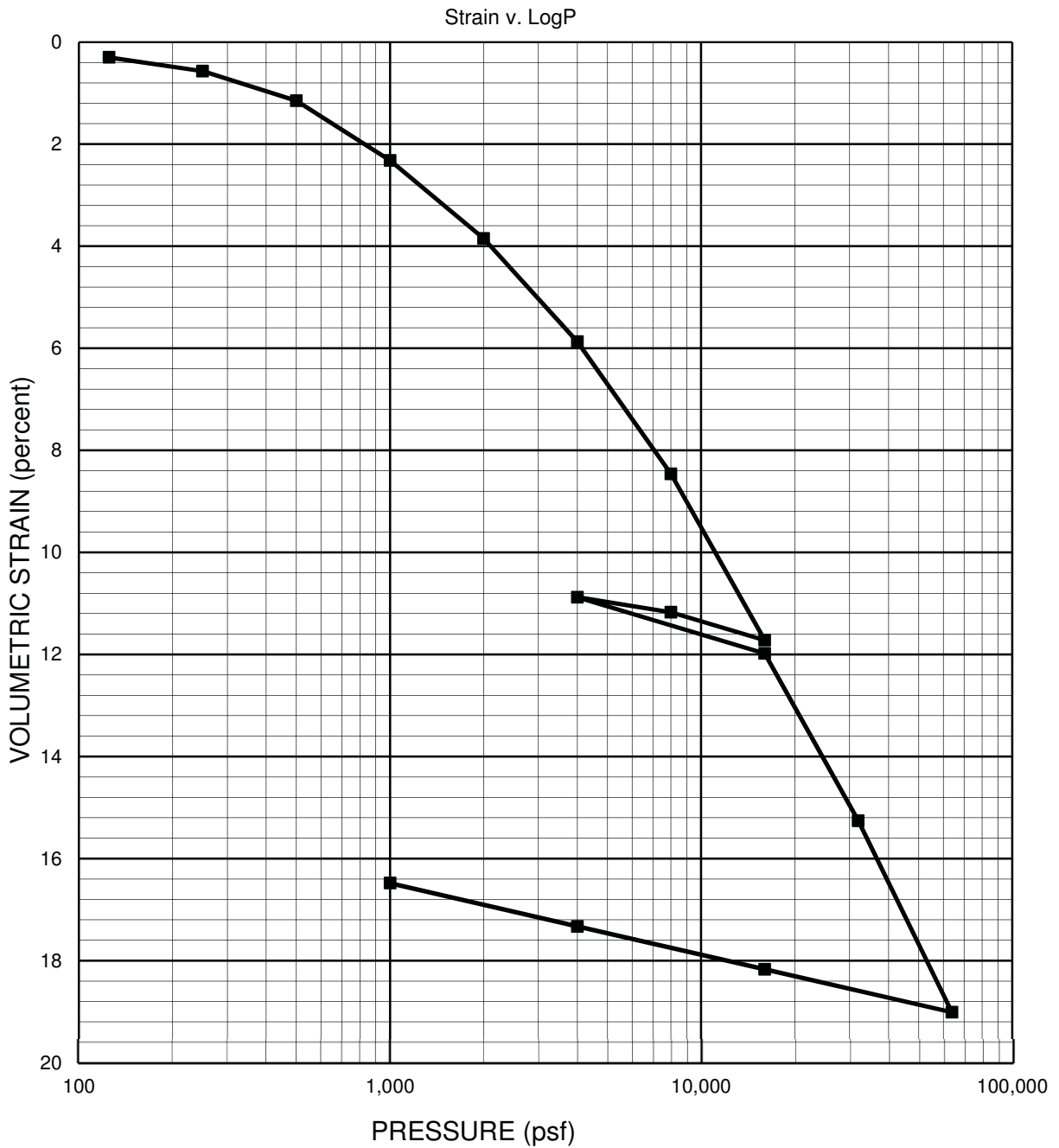
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
 1401 WEST WINTON AVENUE
 Hayward, California



CLASSIFICATION CHART


Date 05/12/17	Project No. 15-919B	Figure B-4
---------------	---------------------	------------

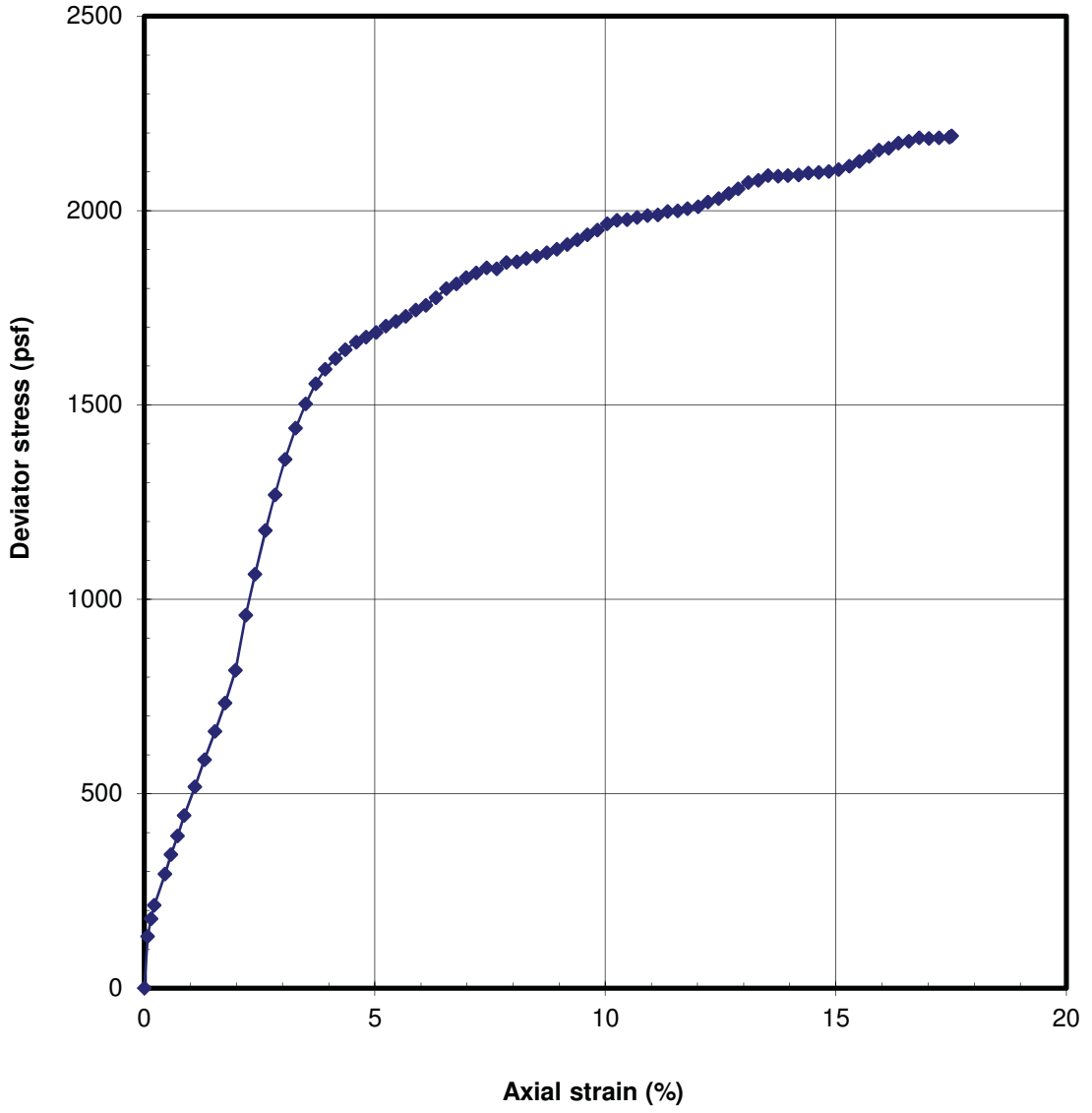
APPENDIX C
Laboratory Test Results




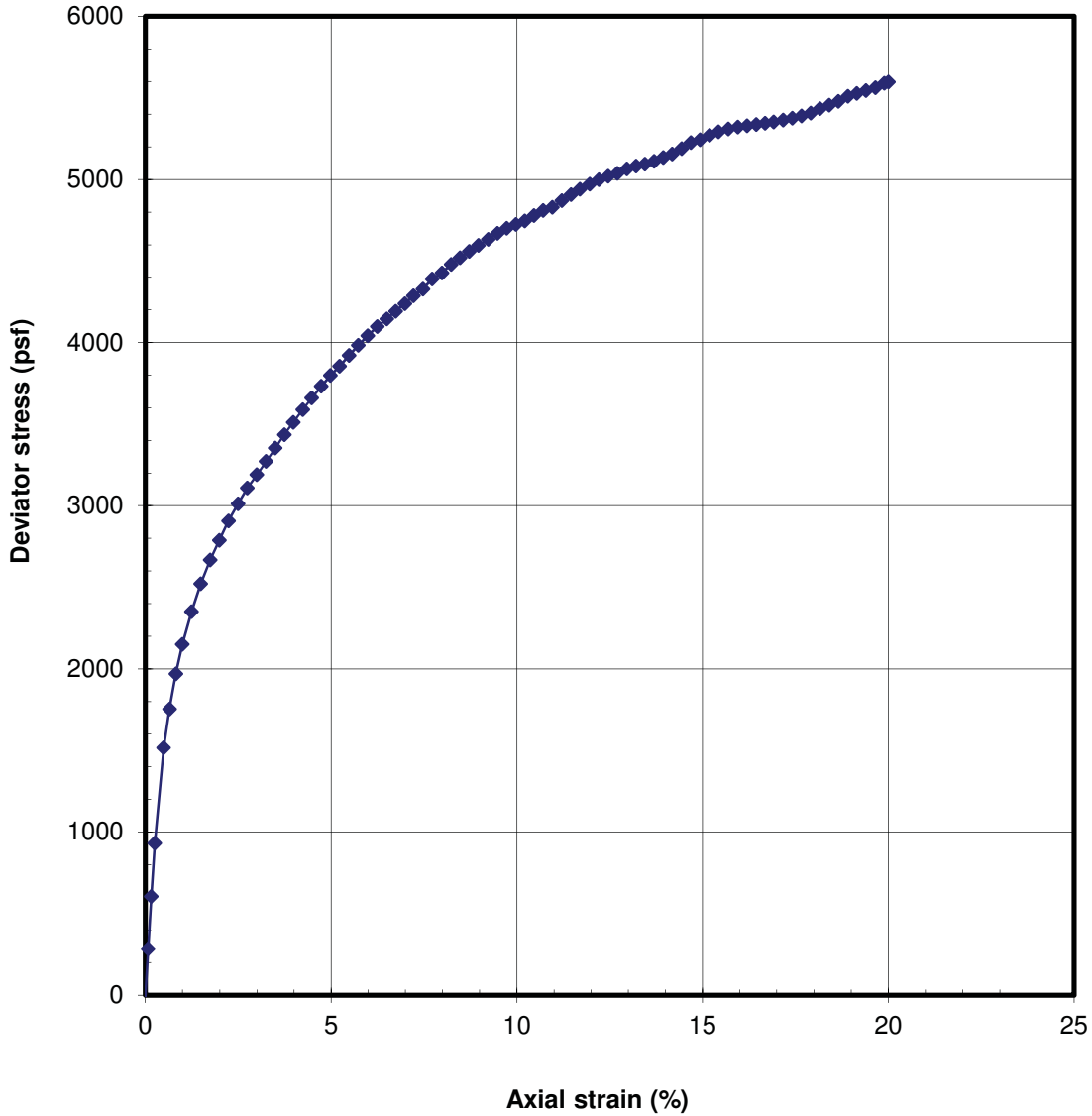
Sampler Type: Shelby Tube		Condition		Before Test		After Test	
Diameter (in)	2.42	Height (in)	1.00	Water Content	w_o 28.7 %	w_f	20.2 %
Overburden Pressure, p_o	2,000 psf	Void Ratio		e_o	0.86	e_f	0.55
Preconsol. Pressure, p_c	4,000 psf	Saturation		S_o	91.9 %	S_f	100 %
Compression Ratio, C_{ec}	0.12	Dry Density		γ_d	92 pcf	γ_d	111 pcf
Recompression Ratio, C_{er}	0.019	LL		PL		PI	
					G_s 2.75		(assumed)


Source: B-1 at 26.0 feet
 Description: CLAY with SAND (CL), light gray

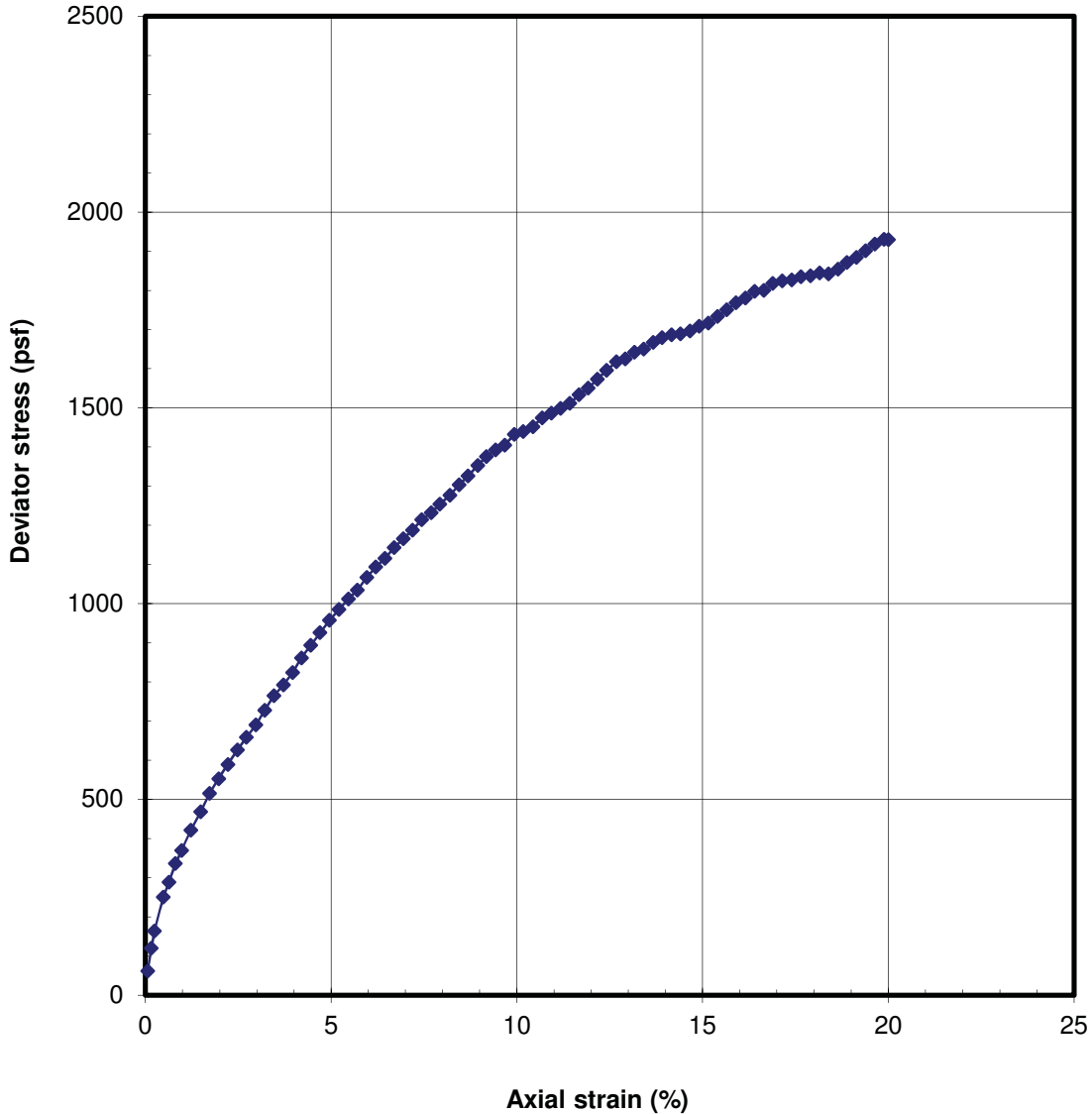
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER 1401 WEST WINTON AVENUE Hayward, California	CONSOLIDATION TEST REPORT
	Date 04/29/17 Project No. 15-919B Figure C-1




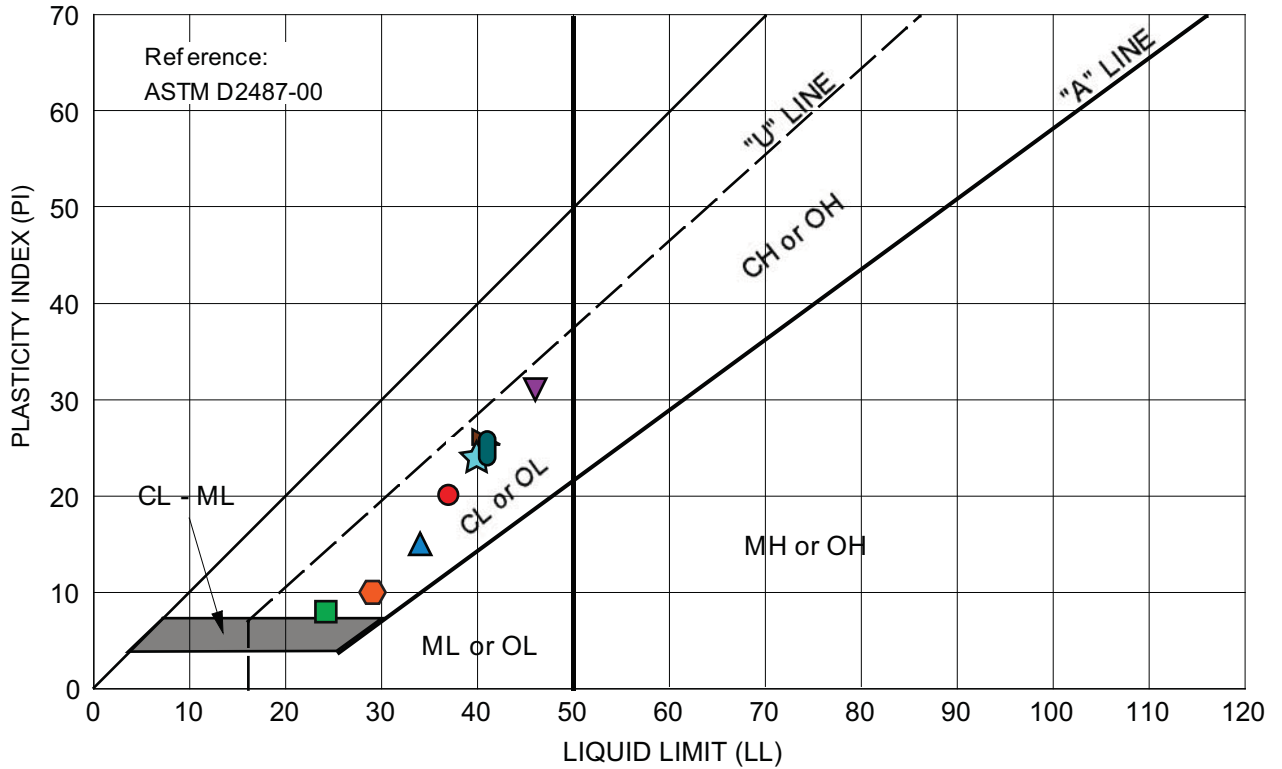
Sampler Type: Shelby Tube		Shear Strength:	1,100 psf
Diameter (in): 2.81	Height (in): 6.51	Strain at Failure:	17.5%
Moisture Content: 28.7 %		Confining Pressure:	2,500 psf
Dry Density: 92 pcf		Strain Rate:	1%/min
Source: B-1 at 25.5 feet			
Description: CLAY with SAND (CL), light gray			
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER 1401 WEST WINTON AVENUE Hayward, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
			
Date: 05/01/17		Project No. 15-919B	Figure C-2



Sampler Type: Sprague & Henwood (S&H)		Shear Strength:	2,800 psf
Diameter (in): 2.39	Height (in): 5.98	Strain at Failure:	20.0%
Moisture Content:	22.6 %	Confining Pressure:	3,000 psf
Dry Density:	106 pcf	Strain Rate:	1%/min
Source: B-2 at 35.5 feet			
Description: CLAY with SAND (CL), green-gray			
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER 1401 WEST WINTON AVENUE Hayward, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
			
Date: 05/01/17	Project No. 15-919B	Figure C-3	



Sampler Type: Sprague & Henwood (S&H)		Shear Strength:	975 psf
Diameter (in): 2.39	Height (in): 5.66	Strain at Failure:	20.0%
Moisture Content:	29.7 %	Confining Pressure:	2,000 psf
Dry Density:	93 pcf	Strain Rate:	1%/min
Source: B-3 at 20.5 feet			
Description: CLAY (CL) yellow-brown with dark brown mottling			
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER 1401 WEST WINTON AVENUE Hayward, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
			
Date: 05/01/17	Project No. 15-919B	Figure C-4	



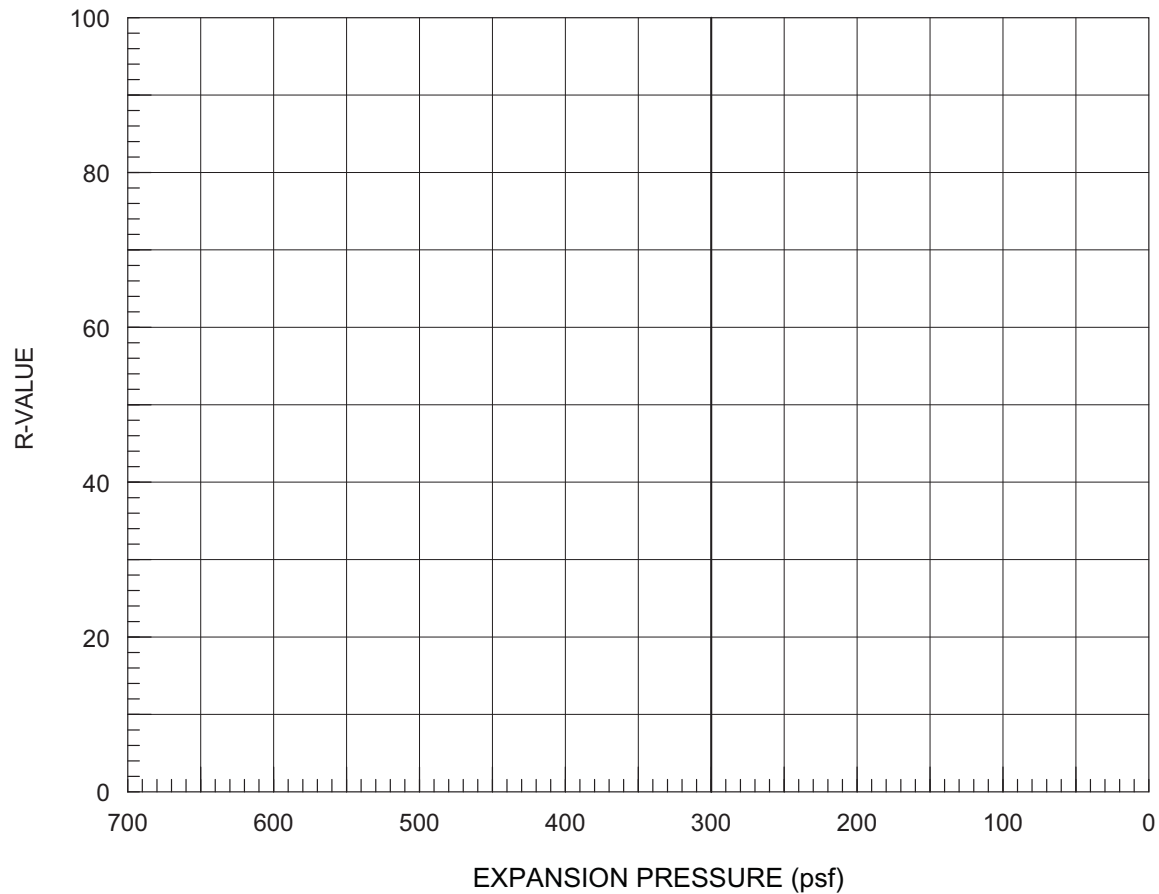
Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-1 at 3.5 feet	CLAY with SAND (CL), brown with dark brown mottling	16.8	37	20	--
▲	B-1 at 20.5 feet	CLAY with SAND (CL), yellow-brown	29.2	34	15	81
■	B-2 at 13.5 feet	SANDY CLAY (CL), olive-brown	25.3	24	8	62
⬡	B-2 at 26.0 feet	SANDY CLAY (CL), light gray	28.4	29	10	50
★	B-2 at 31.0 feet	CLAY with SAND (CL), olive-gray	--	40	24	82
●	B-3 at 2.0- 3.0 feet	CLAY (CL), dark brown	--	41	25	--
▼	CPT-1 at 1.5 feet	CLAY (CL), gray-brown	13.5	46	31	--
▲	CPT-1 at 3.0 feet	CLAY (CL), gray-brown	13.5	41	26	--

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California




PLASTICITY CHART

Date 05/31/17 Project No. 15-919B Figure C-5



Resistance R-Value and Expansion Pressure - Cal Test 301

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	120		22.5					<5	

Test Results				Material Description					
R-Value at 300 psi exudation pressure = N/A				CLAY (CL), dark brown					
				Sample Source: Proposed parking lot, see Figure 2 (Site Plan)					
				Depth: 1-4'					
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER 1401 WEST WINTON AVENUE Hayward, California				R-VALUE TEST REPORT					
				Date 06/01/17	Project No. 15-919B		Figure		C-6

APPENDIX D
Corrosion Evaluation Report



Corrosion Evaluation Report

for

Hayward FS#6 + FTC

May 1, 2017

Prepared for:
Clayton Proto
Rockridge Geotechnical
270 Grand Ave,
Oakland, CA 94610
cjproto@rockridgegeo.com

Project X Job #: S170425A
Client Job or PO #: 15-919B



1 Executive Summary

A corrosion evaluation of the soils at Hayward FS#6 + FTC was performed to provide corrosion control recommendations for general construction materials. The site is located at 1401 W Winton Ave, Hayward, CA 94545 having an area of approximately 5 acres. 2 samples were tested to a depth of 6 ft. Site ground water and topography information was provided via Rockridge Geotechnical and determined to be 16 feet below finished grade.

The recommendations outlined herein are not a substitute for any design documents previously prepared for the purpose of construction.

Soil samples were tested for pH, minimum resistivity, chlorides, sulfates, sulfides, nitrates, ammonias, and redox.

Saturated soil resistivities ranged between 1,005 ohm-cm to 1,407 ohm-cm.

The worst of these values is considered to be corrosive to general metals.

PH levels ranged between 7.67 to 8.04 pH. PH levels were determined to be at levels not detrimental to copper or aluminum alloys. The pH of these samples can allow corrosion of steel and iron in moist environments.

Chlorides ranged between 24 mg/kg to 282 mg/kg. Chloride levels in these samples are enough to cause moderate corrosion in metals.

Sulfates ranged between 90 mg/kg to 120 mg/kg. Sulfate levels in these samples are negligible for corrosion of metals and cement. Any type of cement can be used.

Ammonia ranged between 2.0 mg/kg to 40.0 mg/kg. Nitrates ranged between 69.0 mg/kg to 87.0 mg/kg. Concentrations of these elements were high enough to cause accelerated corrosion of copper and copper alloys such as brass.

Sulfides presence was determined to be trace. REDOX ranged between + 114 mV to + 157 mV.

The probability of corrosive bacteria was determined to be low due to the sulfide and positive REDOX levels determined in these samples.

2 Corrosion Control Recommendations

The following recommendations are based upon the results of soil testing.

2.1 Concrete

The highest reading for sulfates was 120 mg/kg or 0.0120 percent by weight.

Per 2012 IBC section 1904.2, referring to ACI 318, section 4.2, sulfate levels in these samples are negligible for corrosion of metals and cement. Any type of cement can be used.



2.2 Steel Reinforced Concrete/ Concrete Mortar Lined & Coated (CML&C)

Chlorides in soil can overcome the corrosion inhibiting property of concrete for steel, as it can also break through passivated surfaces of aluminum and stainless steels.^{1,2} The highest concentration of chlorides was 282 mg/kg.

Chloride levels in these samples are enough to cause moderate corrosion of metals in soil or in concrete. The following are the corrosion control options:

- 1) Maintaining 3 inches of concrete cover over embedded steel with TYPE II cement
or
- 2) Prevent contact between concrete and soil using impermeable waterproofing system assuring that water intrusion not occurs.

2.3 Steel Post Tensioning Systems

The proper sealing of stressing holes is of utmost importance in PT Systems. Cut off excess strand 1/2" to 3/4" back in the hole. Coat or paint exposed anchorage, grippers, and stub of strands with "Rust-o-leum" or equal. After tendons have been coated, the concrete contractor shall dry pack blockouts within ten (10) days. A non-shrink, non-metallic, non-porous moisture-insensitive grout (Master EMACO S 488 or equivalent), or epoxy grout shall be used for this purpose. If an encapsulated post-tension system is used, regular non-shrink grout can be used.

Due to the moderate chloride concentration measured on samples obtained from this site, post-tensioned slabs should be protected in accordance with soil considered normal (non-corrosive).^{3,4} Additionally, add grease caps to the ends to provide protection against corrosion due to moderate chloride levels.

2.4 Steel Piles

Steel piles are most susceptible to corrosion in disturbed soil where oxygen is available. Further, a dissimilar environment corrosion cell would exist between the steel embedded in concrete, such as pile caps and the steel in the soil. In the cell, the steel in the soil is the anode (corroding metal), and the steel in concrete is the cathode (protected metal). This cell can be minimized by coating the part of the steel piles that will be embedded in concrete to prevent contact with concrete and reinforcing steel.

Piles driven into soils without disturbing soils will avoid oxygen introduction and low corrosion rates unless there is a probability for corrosive anaerobic bacteria. Galvanized steel's zinc coating can provide significant protection for driven piles. In corrosive soils in which normal zinc coatings are not enough, the life of piles can be extended by increasing zinc coating thickness, using sacrificial metal, or providing a combination of epoxy coatings and cathodic protection. Corrosion has been observed to be extremely localized even at and below underground water tables. Pit depths of this magnitude do not have an appreciable effect on the

¹ Design Manual 303: Concrete Cylinder Pipe. Ameron. p.65

² Chapter 19, Table 1904.2.2(1), 2012 International Building Code

³ Post-Tensioning Manual, sixth edition. Post-Tensioning Institute (PTI), Phoenix, AZ, 2006.

⁴ Specification for Unbonded Single Strand Tendons. Post-tensioning Institute (PTI), Phoenix, AZ, 2000.



strength or useful life of piling structures because the reduction in pile cross section is not significant.⁵ Pitting is of more importance to pipes transporting liquids or gases which should not be leaked into the ground.

The following recommendations are recommended to achieve desired life. We defer to structural engineers to use our estimated corrosion rates and to choose from the corrosion control options listed below.

- Sacrificial metal by use of thicker piles per non-disturbed soil corrosion rates

or

- Galvanized steel piles per non-disturbed soil corrosion rates

or

- Combination of galvanized and sacrificial metal per non-disturbed soil corrosion rates

or

- For no loss of metal, coat entire pile with abrasion resistant epoxy coating such as 3M Scotchkote 323, or PowercreteDD, FastcladER, or equivalent.

or

- Use high yield steel which will corrode at the same rate as mild steel but have greater yield strength and thus be able to suffer more material loss than mild steel.

2.4.1 Expected Corrosion Rate of Steel and Zinc in disturbed soil

In general, the corrosion rate of metals in soil depends on the electrical resistivity, the elemental composition, and the oxygen content of the soil. Soils can vary greatly from one acre to the next, especially at earthquake faults. The better a soil is for farming; the easier it will be for corrosion to take place. Expansive soils will also be considered disturbed simply because of their nature from dry to wet seasons.

In Melvin Romanoff's NBS Circular 579, the corrosion rates of carbon steels and various metals was studied over long term periods. Various metals were placed in various soil types to gather corrosion rate data of all metals in all soil types. Samples were collected and material loss measured over the course of 20 years in some sites. The following corrosion rates were estimated by comparing the worst results of soils tested with similar soils in Romanoff's studies and Highway Research Board's publications.⁶ The corrosion rate of zinc in disturbed soils is determined per Romanoff studies and King Nomograph.⁷

Expected Corrosion Rate for Steel = 2.08 mils/year for one sided attack

Expected Corrosion Rate for Zinc = 0.672 mils/year for one sided attack.

Note: 1 mil = 0.001 inch

In undisturbed soils, a corrosion rate of 1 mil/year for steel is expected with little change in the corrosion rate of zinc due to its low nobility in the galvanic series.

⁵ Melvin Romanoff, Corrosion of Steel Piling in Soils, National Bureau of Standards Monograph 58, pg 20.

⁶ Field test for Estimating Service Life of Corrugated Metal Culverts, J.L. Beaton, Proc. Highway Research Board, Vol 41, P. 255, 1962

⁷ King, R.A. 1977, Corrosion Nomograph, TRRC Supplementary Report, British Corrosion Journal



Per CTM 643: Years to perforation of corrugated galvanized steel culverts

- 25.0 Years to Perforation for a 18 gage metal culvert
- 32.5 Years to Perforation for a 16 gage metal culvert
- 40.0 Years to Perforation for a 14 gage metal culvert
- 55.0 Years to Perforation for a 12 gage metal culvert
- 70.0 Years to Perforation for a 10 gage metal culvert
- 85.1 Years to Perforation for a 8 gage metal culvert

2.4.2 Expected Corrosion Rate of Steel and Zinc in Undisturbed soil

Expected Corrosion Rate for Steel = 1 mils/year for one sided attack

Expected Corrosion Rate for Zinc = 0.672 mils/year for one sided attack.

Note: 1 mil = 0.001 inch

2.5 Steel Storage tanks

Underground fuel tanks must be constructed and protected in accordance with California Underground Storage Tank Regulations, CCR, Title 23, Division 3, Chapter 16. Metals should be protected with cathodic protection or isolated from backfill material with an epoxy coating.

2.6 Steel Pipelines

Though a site may not be corrosive in nature at the time of construction, **installation of corrosion test stations and electrical continuity joint bonding should be performed during construction** so that future corrosion inspections can be performed. If steel pipes with gasket joints or other possibly non-conductive type joints are installed, their joints should be bonded across by welding or pin brazing a #8 AWG copper strand bond cable. Electrical continuity is necessary for corrosion inspections and for cathodic protection.

Corrosion test stations should be installed every 1,000 feet of pipeline.

Test stations shall have two #8 HMWPE copper strand wire test leads welded or pin brazed to the underground pipe, brought up into the test station hand hole and marked CTS. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

At isolation joints and pipe casings, 4 wire test stations shall be installed using #8 HMWPE copper strand wire test leads. Use different color wires to distinguish which wires are bonded to one side of isolation joint or to casing. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

Prevent dissimilar metal corrosion cells per NACE SP0286:

- 1) Electrically isolate dissimilar metal connections
- 2) Electrically isolate dissimilar coatings (Epoxy vs CML&C) segments connections
- 3) Electrically isolate river crossing segments
- 4) Electrically isolate freeway crossing segments



- 5) Electrically isolate old existing pipelines
- 6) Electrically isolate aboveground and underground pipe segments

The corrosivity at this site is corrosive to steel. Any piping that must be jack-bored should use abrasion resistant epoxy coating such as 3M Scotchkote 323, or PowercreteDD, or equivalent. The corrosion control options for this site are as follows:

- 1) Apply impermeable dielectric coating such as minimum 8 mil thick polyurethane, and install cathodic protection system per NACE SP0169, or
- 2) Wax tape, or
- 3) Coal tar enamel, or
- 4) Fusion bonded epoxy, or
- 5) Apply 3 inch coating of TYPE II. Cement is both a corrosion inhibitor and a coating for ferrous metals.

It is critical for the life of the pipe that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.7 Steel Fittings

The corrosivity at this site is corrosive to steel. The corrosion control options for this site are as follows:

- 1) Apply impermeable dielectric coating such as minimum 8 mil thick polyurethane, and install cathodic protection system per NACE SP0169, or
- 2) Tape coating system, or
- 3) Wax tape, or
- 4) Coal tar enamel, or
- 5) Fusion bonded epoxy, or
- 6) Apply 3 inch coating of TYPE II concrete. Cement is both a corrosion inhibitor and a coating for ferrous metals.

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.



2.8 Ductile Iron (DI) Fittings

AWWA C105 developed a 10 point system to classify sites as corrosive or non-corrosive to ductile iron materials. The criterion is based upon soil resistivities, soil drainage, pH, sulfide presence, and reduction-oxidation (REDOX) potential. The soil samples tested for this site resulted in a score of 8 out of 25.5. A score greater or equal to 10 points classifies soils as aggressive to iron materials.

The corrosivity at this site is corrosive to iron. The corrosion control options for this site are as follows:

- 1) Apply impermeable dielectric coating such as minimum 8 mil thick polyurethane, and install cathodic protection system per NACE SP0169, or
- 2) Wax tape, or
- 3) Coal tar enamel, or
- 4) Fusion bonded epoxy, or
- 5) Apply 3 inch coating of TYPE II concrete. Cement is both a corrosion inhibitor and a coating for ferrous metals.

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.9 Ductile Iron Pipe

AWWA C105 developed a 10 point system to classify sites as corrosive or non-corrosive to ductile iron materials. The criterion is based upon soil resistivities, soil drainage, pH, sulfide presence, and reduction-oxidation (REDOX) potential. The soil samples tested for this site resulted in a score of 8 out of 25.5. A score greater or equal to 10 points classifies soils as aggressive to iron materials.

Though a site may not be corrosive in nature at the time of construction, **installation of corrosion test stations and electrical continuity joint bonding should be performed during construction** so that future corrosion inspections can be performed. If steel pipes with gasket joints or other possibly non-conductive type joints are installed, their joints should be bonded across by welding or pin brazing a #8 AWG copper strand bond cable. Electrical continuity is necessary for corrosion inspections and for cathodic protection.

Corrosion test stations should be installed every 1,000 feet of pipeline.

Test stations shall have two #8 HMWPE copper strand wire test leads welded or pin brazed to the underground pipe, brought up into the test station hand hole and marked CTS. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.



At isolation joints and pipe casings, 4 wire test stations shall be installed using #8 HMWPE copper strand wire test leads. Use different color wires to distinguish which wires are bonded to one side of isolation joint or to casing. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

Prevent dissimilar metal corrosion cells per NACE SP0286:

- 1) Electrically isolate dissimilar metal connections
- 2) Electrically isolate dissimilar coatings (Epoxy vs CML&C) segments connections
- 3) Electrically isolate river crossing segments
- 4) Electrically isolate freeway crossing segments
- 5) Electrically isolate old existing pipelines
- 6) Electrically isolate aboveground and underground pipe segments

The corrosivity at this site is corrosive to iron. Any piping that must be jack-bored should use abrasion resistant epoxy coating such as 3M Scotchkote 323, or PowercreteDD, FastcladER, or equivalent. The corrosion control options for this site are as follows:

- 1) Apply impermeable dielectric coating such as minimum 8 mil thick polyurethane, and install cathodic protection system per NACE SP0169, or
- 2) Tape coating system, , and install cathodic protection system per NACE SP0169, or
- 3) Wax tape, or
- 4) Coal tar enamel, or
- 5) Fusion bonded epoxy, or
- 6) Apply 3 inch coating of TYPE II concrete

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.10 Copper Materials

Copper is an amphoteric material which is susceptible to corrosion at very high and very low pH. It is one of the most noble metals used in construction thus typically making it an anode when connected to dissimilar metals. Copper's nobility can change with temperature, similar to the phenomenon in zinc. When zinc is at room temperature, it is less noble than steel and can provide cathodic protection to steel. But when zinc is at a temperature above 140F such as in a water heater, it becomes nobler than the steel and the steel becomes the sacrificial anode. This is why zinc is not used in steel water heaters or boilers. Copper when cold has one native potential, but when heated develops a more electronegative electro-potential. Thus hot and cold copper



pipes should be electrically isolated from each other to avoid creation of a thermo-galvanic corrosion cell.

2.10.1 Copper Pipes

The lowest pH for this area was measured to be 7.67. Soil with a pH less than 5.5 is considered aggressive to copper. Copper is also greatly affected by ammonia and nitrate concentrations⁸. The highest nitrate concentration was 87.0 mg/kg and the highest ammonia concentration was 8.5 mg/kg at this site.

These soils were determined to be corrosive to copper and copper alloys such as brass.

Cold water and hot water pipes should be electrically isolated from each other by use of dielectric unions and plastic in wall pipe supports. The following are corrosion control options for underground copper water pipes.

- 1) Run copper pipes within PVC pipes to prevent soil contact, or
- 2) Cover piping with a 20 mil epoxy coating free of scratches and defects, or
- 3) Cover copper pipes with minimum 10 mil polyethylene sleeve over a suitable primer and apply cathodic protection per NACE SP0169

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.10.2 Brass Fittings

Brass fittings should be electrically isolated from dissimilar metals by use of dielectric unions or isolation joint kits.

These soils were determined to be corrosive to copper and copper alloys such as brass.

The following are corrosion control options for underground brass.

- 1) Prevent soil contact by use of impermeable coating system such as wax tape, or
- 2) Prevent soil contact by use of a 20 mil epoxy coating free of scratches and defects, or
- 3) Cover brass with minimum 10 mil polyethylene sleeve over a suitable primer and apply cathodic protection per NACE SP0169

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

⁸ Corrosion Data Handbook, Table 6, Corrosion Resistance of copper alloys to various environments, 1995



2.10.3 Bare Copper Grounding Wire

It is assumed that corrosion will occur at all sides of the bare wire, thus the corrosion rate is calculated as a two sided attack determining the time it takes for the corrosion from two sides to meet at the center of the wire. The estimated life of bare copper wire for this site is the following:⁹

Size (AWG)	Diameter (mils)	Est. Time to penetration (Yrs)
14	64.1	5.5
13	72	6.2
12	80.8	7.0
11	90.7	7.8
10	101.9	8.8
9	114.4	9.9
8	128.5	11.1
7	144.3	12.4
6	162	14.0
5	181.9	15.7
4	204.3	17.6
3	229.4	19.8
2	257.6	22.2
1	289.3	24.9

If the bare copper wire is being used as a grounding wire connected to less noble metals such as galvanized steel or carbon steel, the less noble metals will provide additional cathodic protection to the copper reducing the corrosion rate of the copper.

It is recommended that a corrosion inhibiting and water-repelling coating such as Corrosion X Part No. 90102 by Corrosion Technologies (no affiliation to Project X) be applied to aboveground and belowground copper-to-dissimilar metal connections to reduce risk of dissimilar corrosion.

2.11 Aluminum Pipe/Conduit/Fittings

Aluminum is an amphoteric material prone to pitting corrosion in environments that are very acidic or very alkaline or high in chlorides.

Conditions at this site are safe for aluminum.

Aluminum derives its corrosion resistance from its oxide layer which needs oxygen to regenerate if damaged, similar to stainless steels. Thus aluminum is not good for deep soil applications. Since aluminum corrodes at very alkaline environments, it cannot be encased or placed against cement or mortar such as brick wall mortar up against an aluminum window frame.

⁹ Soil-Corrosion studies 1946 and 1948: Copper Alloys, Lead, and Zinc, Melvin Romanoff, National Bureau of Standards, Research Paper RP2077, 1950



Aluminum is also very low on the galvanic series scale making it most likely to become a sacrificial anode when in contact with dissimilar metals in moist environments. Avoid electrical continuity with dissimilar metals by use of insulators, dielectric unions, or isolation joints. Pooling of water at post bottoms or surfaces should be avoided by integrating good drainage.

2.12 Carbon Fiber or Graphite Materials

Carbon fiber or other graphite materials are extremely noble on the galvanic series and should always be electrically isolated from dissimilar metals. They can conduct electricity and will create corrosion cells if placed in contact within a moist environment with any metal.

3 CLOSURE

In addition to soils chemistry and resistivity, another contributing influence to the corrosion of buried metallic structures is stray electrical currents. These electrical currents flowing through the earth originate from buried electrical systems, grounding of electrical systems in residences and commercial buildings and from high voltage overhead power grids. Therefore, it is imperative that the application of protective wraps and/or coatings be properly applied and inspected.

It is the responsibility of the builder and/or contractor to closely monitor the installation of such materials requiring protection in order to assure that the protective wraps or coatings are not damaged.

The recommendations outlined herein are in conformance with current accepted standards of practice that meet or exceed the provisions of the Uniform Building Code (UBC), the International Building Code (IBC), the American Concrete Institute (ACI), National Association of Corrosion Engineers (NACE International), Post-Tensioning Institute Guide Specifications and State of California Department of Transportation, Standard Specifications, American Water Works Association (AWWA) and the Ductile Iron Pipe Research Association (DIPRA).

Our services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call if you have any questions.

Respectfully Submitted,

Eddie Hernandez, M.Sc., P.E.
Sr. Corrosion Consultant
NACE Corrosion Technologist #16592
Professional Engineer
California No. M37102
ehernandez@projectxcorrosion.com





4 SOIL ANALYSIS LAB RESULTS

Client: Rockridge Geotechnical
 Job Name: Hayward FS#6 + FTC
 Client Job Number: 15-919B
 Project X Job Number: S170425A
 May 1, 2017

Bore# / Description	Method	ASTM G187	ASTM G187	ASTM D516		ASTM D512B		SM 4500-E	SM 4500-C	SM 4500-D	ASTM G200	ASTM G51
	Depth	As-Rec'd Resistivity	Min- Resistivity	Sulfates		Chlorides		Nitrate	Ammonia	Sulfide	Redox	pH
	(ft)	(Ohm-cm)	(Ohm-cm)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(mg/kg)	(mg/kg)	(mg/kg)	(mV)	
B-1	6	1,407	1,407	120	0.0120	282	0.0282	87	40	4.3	114	8.04
B-2	2.5	3,015	1,005	90	0.0090	24	0.0024	69	2	0.2	157	7.67

Unk = Unknown

NT = Not Tested

ND = 0 = Not Detected

mg/kg = milligrams per kilogram (parts per million) of dry soil weight

mg/L - milligrams per liter of liquid volume

Chemical Analysis performed on 1:3 Soil-To-Water extract

Please call if you have any questions.

Respectfully Submitted,



Eddie Hernandez, M.Sc., P.E.
 Sr. Corrosion Consultant
 NACE Corrosion Technologist #16592
 Professional Engineer
 California No. M37102
 ehernandez@projectxcorrosion.com



Figure 1



5 Corrosion Basics

In general, the corrosion rate of metals in soil depends on the electrical resistivity, the elemental composition, and the oxygen content of the soil. Soils can vary greatly from one acre to the next, especially at earthquake faults. The better a soil is for farming; the easier it will be for corrosion to take place. Oxygen content in soil can be increased during construction. These soils are considered disturbed soils. When construction equipment at a site is simply driving piles into soil without digging into the soil, the activity can still disturb soil down to 3 feet. Expansive soils will also be considered disturbed simply because of their nature from dry to wet seasons.

5.1 Galvanic Series

All metals have a natural electrical potential in soil. This electrical potential is measured using a high impedance voltmeter connected to the metal being tested and with the common lead connected to a copper copper-sulfate reference electrode (CSE). There are many types of reference electrodes. In laboratory measurements, a Standard Hydrogen Electrode (SHE) is commonly used. When different metal alloys are tested they can be ranked into an order from most noble (less corrosion), to least noble (more active corrosion). When a more noble metal is connected to a less noble metal, the less noble metal will become an anode and sacrifice itself through corrosion providing corrosion protection to the more noble metal. This hierarchy is known as the galvanic series named after Luigi Galvani whose experiments with electricity and muscles led Alessandro Volta to discover the reactions between dissimilar metals leading to the early battery. The greater the voltage difference between two metals, the faster the corrosion rate will be.

Table 1- Dissimilar Metal Corrosion Risk

	Zinc	Galvanized Steel	Aluminum	Cast Iron	Lead	Mild Steel	Tin	Copper	Stainless Steel
Zinc	None	Low	Medium	High	High	High	High	High	High
Galvanized Steel	Low	None	Medium	Medium	Medium	High	High	High	High
Aluminum	Medium	Medium	None	Medium	Medium	Medium	Medium	High	High
Cast Iron	High	Medium	Medium	None	Low	Low	Low	Medium	Medium
Lead	High	Medium	Medium	Low	None	Low	Low	Medium	Medium
Mild Steel	High	High	Medium	Low	Low	None	Low	Medium	Medium
Tin	High	High	Medium	Low	Low	Low	None	Medium	Medium
Copper	High	High	High	Medium	Medium	Medium	Medium	None	Low
Stainless Steel	High	High	High	Medium	Medium	Medium	Medium	Low	None

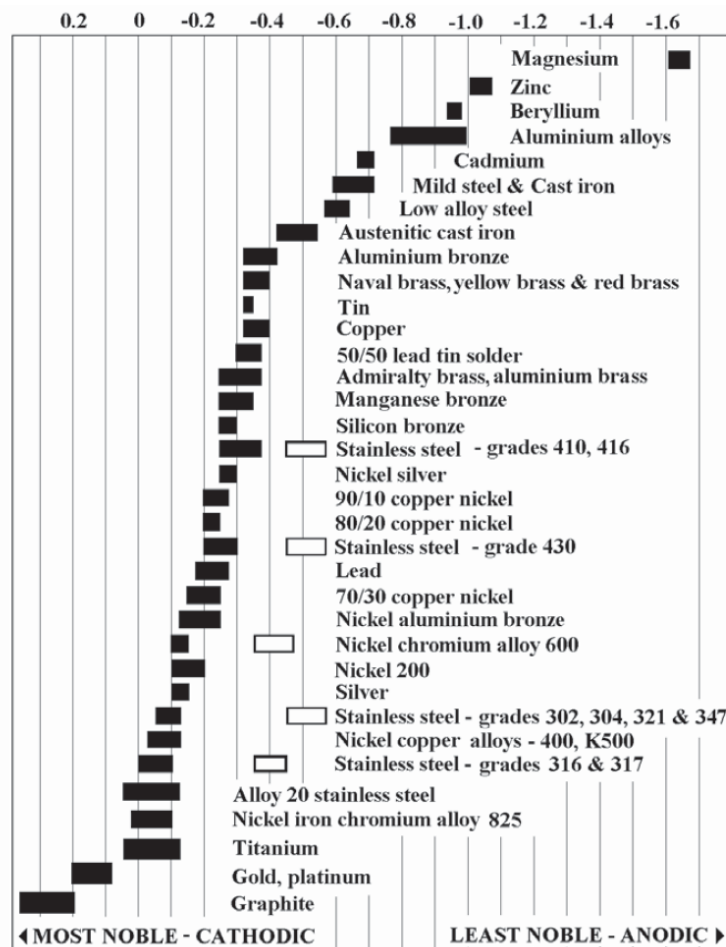


Figure 2 - Galvanic series of metals relative to CSE half cell.

5.2 Pourbaix Diagram

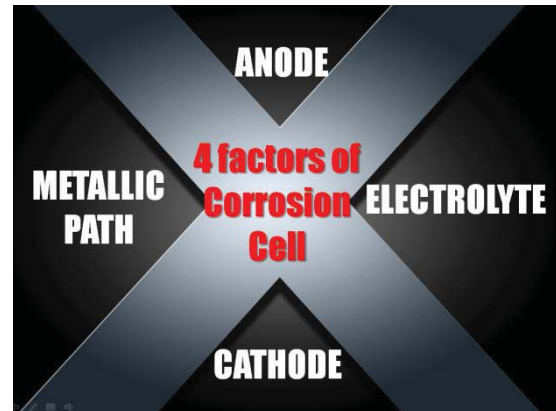
Every metal reacts differently in different environments. In the mid 1900's, Marcel Pourbaix developed the Pourbaix diagram which describes a metal's reaction to an environment dependant on pH and voltage conditions. It describes when a metal remains passive (non-corroding) and in which conditions metals become soluble (corrode). Steels are passive in pH over 12 such as the condition when it is encased in concrete. If the concrete were to carbonate and its pH reduce to below 12, the concrete would no longer be able to act as a corrosion inhibitor and the steel will begin to corrode when moist.

Some metals such as aluminum are amphoteric, meaning that they react with acids and bases. They can corrode in low pH and in high pH conditions. Aluminum alloys are generally passive within a pH of 4 and 8.5 but will corrode outside of those ranges. This is why aluminum cannot be embedded in concrete and why brick mortar should not be laid against an aluminum window frame.



5.3 Corrosion Cell

In order for corrosion to occur, four factors must be present. (1) The anode (2) the cathode (3) the electrolyte and (4) the metallic or conductive path joining the anode and the cathode. If any one of these is removed, corrosion activity will stop. This is how a simple battery produces electricity. An example of a non-metallic yet conductive material is graphite. Graphite is similar in nobility to gold. Do not connect graphite to anything in moist environments.



The anode is where the corrosion occurs, and the cathode is the corrosion free material. Sometimes the anode and cathode are different materials connected by a wire or union. Sometimes the anode and cathode are on the same pipe with one area of the pipe in a low oxygen zone while the other part of the pipe is in a high oxygen zone. A good example of this is a post in the ocean that is repeatedly splashed. Deep underwater, corrosion is minimal, but at the splash zone, the corrosion rate is greatest. Low oxygen zones and crevices can also harbor corrosive bacteria which in moist environments will lead to corrosion. This is why pipes are laid on backfill instead of directly on native cut soil in a trench. Filling a trench slightly with backfill before installing pipe then finishing the backfill creates a uniform environment around the entire surface of the pipe.

The electrolyte is generally water, seawater, or moist soil which allows for the transfer of ions and electrical current. Pure water itself is not very conductive. It is when salts and minerals dissolve into pure water that it becomes a good conductor of electricity and chemical reactions. Metal ores are turned into metal alloys which we use in construction. They naturally want to return to their natural metal ore state but it requires energy to return to it. The corrosion cell, creates the energy needed to return a metal to its natural ore state.

The metallic or conductive path can be a wire or coupling. Examples are steel threaded into a copper joint, or an electrician grounding equipment to steel pipes inadvertently connecting electrical grid copper grounding systems to steel or iron underground pipes.

The ratio of surface area between the anode and the cathode is very important. If the anode is very large, and the cathode is very small, then the corrosion rate will be very small and the anode may live a long life. An example of this is when short copper laterals were connected to a large and long steel pipeline. The steel had plenty of surface area to spread the copper's attack, thus corrosion was not noticeable. But if the copper was the large pipe and the steel the short laterals, the steel would corrode at an amazing rate.

5.4 Design Considerations to Avoid Corrosion

The following recommendations are based upon typical observations and conclusions made by forensic engineers in construction defect lawsuits and NACE International (Corrosion Society) recommendations.



5.4.1 Testing Soil Factors (Resistivity, pH, REDOX, SO, CL, NO3, NH3)

As previously mentioned, different factors can cause corrosion. The most useful and common test for categorizing a soil’s corrosivity has been the measure of soil resistivity which is typically measured in units of (ohm-cm) by corrosion engineers and geologists. Soil resistivity is the ability of soil to conduct or resist electrical currents and ion transfer. The lower the soil resistivity, the more conductive and corrosive it is. The following are generally accepted descriptions.

Table 2 - Corrosion Basics- An Introduction, NACE, 1984, pg 191

(Ohm-cm)	Corrosivity Description
0-500	Very Corrosive
500-1,000	Corrosive
1,000-2,000	Moderately Corrosive
2,000-10,000	Mildly Corrosive
Above 10,000	Progressively less corrosive

Testing a soil’s pH provides information to reference the Pourbaix diagram of specific metals. Some elements such as ammonia and nitrates can create localized alkaline conditions which will greatly affect amphoteric materials such as aluminum and copper alloys.

Excess sulfates can break-down the structural integrity of concrete and high concentrations of chlorides can overcome concrete’s corrosion inhibiting effect on encased ferrous metals and break down protective passivated surface layers on stainless steels and aluminum.

Corrosive bacteria are everywhere but can multiply significantly in anaerobic conditions with plentiful sulfates. The bacteria themselves do not eat the metal but their by-products can form corrosive sulfuric acids. The probability of corrosive bacteria is tested by measuring a soil’s oxidation-reduction (REDOX) electro-potential and by testing for the presence of sulfides.

5.4.2 Proper Drainage

It cannot be emphasized enough that pooled stagnant water on metals will eventually lead to corrosion. This stands for internal corrosion and external corrosion situations. In soils, providing good drainage will lower soil moisture content reducing corrosion rates. Attention to properly sealing polyethylene wraps around valves and piping will avoid water intrusion which would allow water to pool against metals. Above ground structures should not have cupped or flat surfaces that will pond water after rain or irrigation events.

Buildings typically have swales when constructed to drain water away from buildings directing it towards an acceptable exit point such as a driveway where it continues draining to a local storm drain. Many homeowners, landscapers and flatwork contractors appear to not be aware of this and destroy swales during remodeling. The majority of garage floor and finished grade elevations are governed by drainage during design.

5.4.3 Avoiding Crevices

Crevice are excellent locations for oxygen differential induced corrosion cells to begin. Crevice can also harbor corrosive bacteria even in the most chemically treated waters. If



water's total alkalinity is low, its ability to maintain a stable pH can also become more difficult within a crevice allowing the pH to drop to acidic levels continuing a pitting process.

5.4.4 Coatings and Cathodic Protection

When faced with a corrosive environment, the best defense against corrosion is removing the electrolyte from the corrosion cell by applying coatings to separate the metal from the soil. During construction and installation, there is always some scratch or damage made to a coating. NACE training recommends that coatings be used as a first line of defense and that sacrificial or impressed current cathodic protection is used as a 2nd line of defense to protect the scratched areas. Use of a good coating dramatically reduces the amount of anodes a CP system would need. If CP is not installed as a 2nd line of defense in an extremely corrosive environment, the small scratched zones will suffer accelerated corrosion. CP details such as anode installation instructions must be designed by corrosion engineers on a per project basis because it depends on soil resistivity, surface area of infrastructure to be protected, and system geometry.

There are two types of cathodic protection systems, a Galvanic Anode Cathodic Protection (GACP) system and an Impressed Current Cathodic Protection (ICCP) system. A Galvanic Anode Cathodic Protection (GACP) system is simpler to install and maintain than an Impressed Current Cathodic Protection (ICCP) system. To protect the metals, they must all be electrically continuous to each other. In a GACP system, sacrificial zinc or magnesium anodes are then buried at locations per the CP design and connected by wire to a structure at various points in system. At the connection points, a wire connecting to the structure and the wire from the anode are joined in a Cathodic Protection Test Station hand hole which looks similar in size and shape to an irrigation valve pull box. By coating the underground structures, one can reduce the number of anodes needed to provide cathodic protection by 80% in many instances.

An ICCP system requires a power source, a rectifier, significantly more trenching, and more expensive type anodes. These systems are typically specified when bare metal is requiring protection in severely corrosive environments in which galvanic anodes do not provide enough power to polarize infrastructure to -850 mV structure-to-soil potential or be able to create a 100 mV potential shift as required by NACE SP169 to control corrosion. In severely corrosive environments, a GACP system simply may not last a required lifetime due to the high rate of consumption of the sacrificial anodes. ICCP system rectifiers must be inspected and adjusted quarterly or at a minimum bi-annually per NACE recommendations. Different anode installations may be possible but for large sites, anodes are placed evenly throughout the site and all anode wires must be trenched to the rectifier. For a large site, it may be beneficial to use two or more rectifiers to reduce wire lengths or trenching.

To simplify, a GACP system can be installed and practically forgotten with minor trenching because the anodes can be installed very close to the structures. An ICCP system must be inspected annually and anode wires run back to the rectifier which itself connects to the pile system. If any type of trenching or development is expected to occur at the site during the life of the site, it is a good idea to inspect the anode connections once a year to make sure wires are not cut and that the infrastructure is still being provided adequate protection. A common situation that occurs with ICCP systems is that a contractor accidentally cuts the wires during construction then reconnects them incorrectly, turning the once cathode, into a sacrificing anode.



Design of a cathodic protection system requires that Wenner Four Pin ground resistance measurements per ASTM G57 be performed by corrosion engineers at various locations of the site to determine the best depths and locations for anode installations. Ideally, a sample pile is installed and experiments determining current requirement are conducted. Using this data, the decision is made whether a GACP system is feasible or if an ICCP must be used.

Project X Corrosion Engineers can provide a proposal for cathodic protection design and field work if needed.

5.4.4.1 Good Electrical Continuity

In order for cathodic protection to protect a long pipeline or system of pipes, they must all be electrically continuous to each other so that the electric current from the anode can travel along the pipes, then return through the earth to the anode. Electrical continuity is achieved by welding or pin brazing #8 AWG copper strand bond cable to the end of pipe sticks which have rubber gaskets at bell and spigots. If steel pipes are joined by full weld, bonding wires are not needed.

Electrical continuity between dissimilar metals is not desirable. Isolation joints or di-electric unions should be installed between dissimilar metals, such as steel pipes connecting to a brass valve. Bonding wires should then be welded onto the steel pipes by-passing the brass valve so that the cathodic protection system's current can continue to travel. Another option would be to provide a separate cathodic protection system for steel pipes on both sides of the brass valve.

Typically, gas meters and water meters have dielectric unions installed in them to separate utility property from homeowner property. This also protects them in the case that a home owner somehow electrically connects water pipes or gas pipes to a neighborhood electrical grounding system which can potentially have less noble steel in soil now connected to much more noble copper in soil which will then create a corrosion cell. This is exactly how a lemon powered clock works when a galvanized zinc nail and a steel nail are inserted into a lemon then connected to a clock. The clock is powered by the corrosion cell created.

5.4.4.2 Bad Electrical Continuity

Bad electrical continuity is when two different materials or systems are made electrically continuous (aka shorted) when they were not designed to be electrically continuous. Examples of this would be when gas lines are shorted to water lines or to electrical grounding beds. Very often, fire risers are shorted to electrical grounding systems, and water pipes at business parks. Since fire risers usually have a very short ductile iron pipe in the ground which connects to PVC pipe systems, they tend to experience leaks after 7 to 10 years of being attacked by underground copper systems.

It is absolutely imperative that any copper water piping or other metal conduits penetrating concrete slab or footings, not come in contact with the reinforcing steel or post-tensioning tendons to avoid creation of galvanic corrosion cells.

5.4.4.3 Corrosion Test Stations

Corrosion test stations should be installed every 1,000 feet along pipelines in order to measure corrosion activity in the future. For a simple pipeline, two #8 AWG copper strand bond cable welded or pin brazed onto the pipeline are run up to finished grade and left in a hand hole. Corrosion test stations are used to measure pipe-to-soil electro potential relative to a copper



copper-sulfate reference electrode to determine if the pipe is experiencing significant corrosion activity. By measuring test stations along a pipeline, hot spots can be determined, if any. The wires also allow for electrical continuity testing, condition assessment, and a multitude of other types of tests.

At isolation joints and pipe casings, two wires should be welded to either side of the isolation joint for a total of 4 wires to be brought up to the hand hole. This allows for future tests of the isolation joint, casing separation confirmation, and pipe-to-soil potential readings during corrosion surveys.

5.4.5 Excess Flux in Plumbing

Investigations of internal corrosion of domestic water plumbing systems almost always finds excess flux to be the cause of internal pitting of copper pipes. Some people believe that there is no such thing as too much flux. Flux runs have been observed to travel up to 20 feet with pitting occurring along the flux run. Flushing a soldered plumbing system with hot water for 15 minutes can remove significant amounts of excess flux left in the pipes. If a plumbing system is expected to be stagnant for some time, it should be drained to avoid stagnant water conditions that can lead to pitting and dezincification of yellow brasses.

5.4.6 Landscapers and Irrigation Sprinkler Systems

A significant amount of corrosion of fences is due to landscaper tools scratching fence coatings and irrigation sprinklers spraying these damaged fences. Recycled water typically has a higher salt content than potable drinking water, meaning that it is more corrosive than regular tap water. The same risk from damage and water spray exists for above ground pipe valves and backflow preventers. Fiber glass covers, cages, and concrete footings have worked well to keep tools at an arm's length.

5.4.7 Roof Drainage splash zones

Unbelievably, even the location where your roof drain splashes down can matter. We have seen drainage from a home's roof valley fall directly down onto a gas meter causing it's piping to corrode at an accelerated rate reaching 50% wall thickness within 4 years. It is the same effect as a splash zone in the ocean or in a pool which has a lot of oxygen and agitation that can remove material as it corrodes.

5.4.8 Stray Current Sources

Stray currents which cause material loss when jumping off of metals may originate from direct-current distribution lines, substations, or street railway systems, etc., and flow into a pipe system or other steel structure. Alternating currents may occasionally cause corrosion. The corrosion resulting from stray currents (external sources) is similar to that from galvanic cells (which generate their own current) but different remedial measures may be indicated. In the electrolyte and at the metal-electrolyte interfaces, chemical and electrical reactions occur and are the same as those in the galvanic cell; specifically, the corroding metal is again considered to be the anode from which current leaves to flow to the cathode. Soil and water characteristics affect the corrosion rate in the same manner as with galvanic-type corrosion.



However, stray current strengths may be much higher than those produced by galvanic cells and, as a consequence, corrosion may be much more rapid. Another difference between galvanic-type currents and stray currents is that the latter are more likely to operate over long distances since the anode and cathode are more likely to be remotely separated from one another. Seeking the path of least resistance, the stray current from a foreign installation may travel along a pipeline causing severe corrosion where it leaves the line. Knowing when stray currents are present becomes highly important when remedial measures are undertaken since a simple sacrificial anode system is likely to be ineffectual in preventing corrosion under such circumstances.¹⁰ Stray currents can be avoided by installing proper electrical shielding, installation of isolation joints, or installation of sacrificial jump off anodes at crossings near protected structures such as metal gas pipelines or electrical feeders

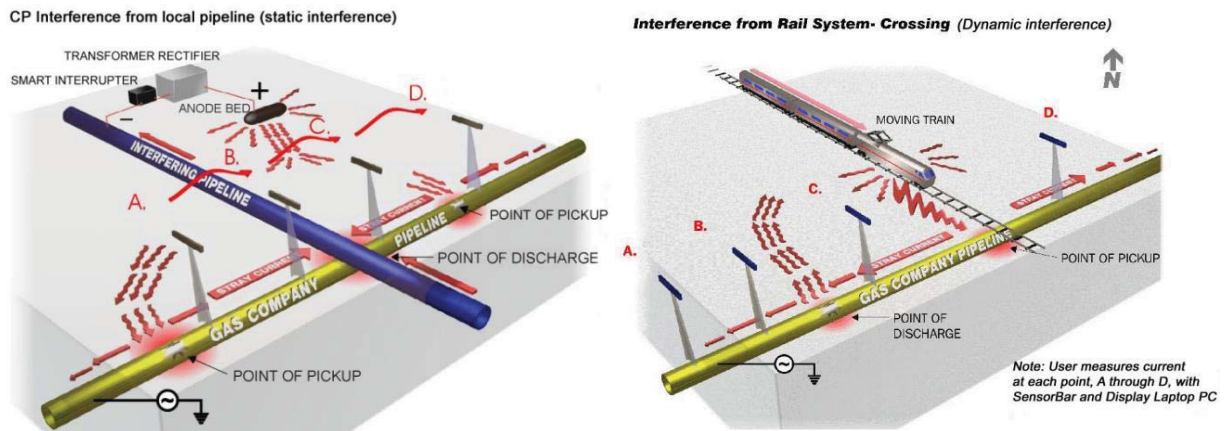


Figure 3 Examples of Stray Current¹¹

¹⁰ <http://corrosion-doctors.org/StrayCurrent/Introduction.htm>

¹¹ <http://www.eastcomassoc.com/>



Project X
Corrosion Engineering
Corrosion Control - Soil, Water, and Metallurgy Lab

S170425A Rock Ridge - 15-919B - 2 Full

Lab Request Sheet Chain of Custody
Phone: (213) 928-7213 · Fax (951) 226-1720 · www.projectxcorrosion.com
Ship Samples To: 29970 Technology Dr, Suite 105F, Murrieta, CA 92563

IMPORTANT: Please complete Project and Sample Identification Data as you would like it to appear in report & include this form with samples.

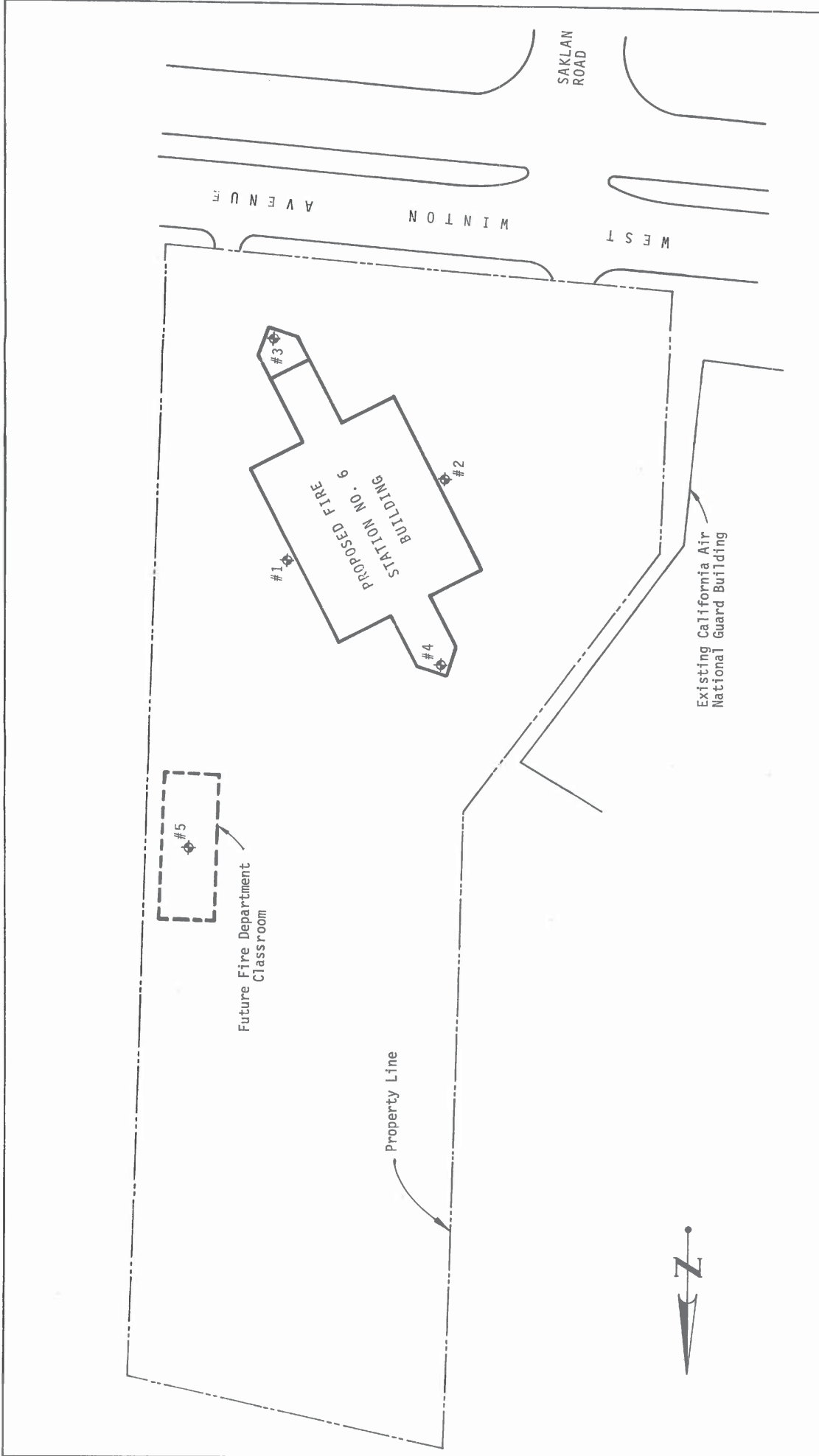
Company Name: Rockridge Geotechnical	Contact Name: Clayton Proto	Project X Job #:
Mailing Address: 270 Grand Avenue, Oakland California	Contact Email: c.j.proto@rockridgegeo.com	Date: 4/24/17
Accounting Contact: Kate Schenk	Invoice Email: kaschenk@rockridgegeo.com	Phone No.: 510-420-5738 x120
Project Name: Hayward FS#6 + FTC		
Client Project No.: 15-919B		

Turn Around Time:		P.O. #:
5 Day Normal	3 Day RUSH 75% mark-up	
X		
Results By: <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Overnight Mail (charges apply)		
Received by:		Default Method

SPECIAL INSTRUCTIONS:		ANALYSIS REQUESTED (Please circle)					NOTES
SAMPLE ID - BORE #	DESCRIPTION	DEPTH (ft)	DATE COLLECTED	CORROSION SERIES	Min. Resistivity, Sulfate, Chloride, Sulfide, Redox, pH, Ammonia, Nitrate	ASTM G187 ASTM G57 CTM643	
B-1	CLAY with SAND (cc) brown	6 ft	4/10/17	X	Soil Resistivity	ASTM G187	
B-2	CLAY (CH) dark brown	2.5 ft	4/10/17	X	Soil Resistivity	ASTM G187	
					Soil Resistivity	ASTM G187	
					PH	ASTM G51 ASTM G289 CTM643	
					Sulfate	ASTM D516 ASTM G290 CTM417	
					Chloride	ASTM D512B ASTM G291 CTM422	
					Redox Potential	SM 2580B	
					BiCarbonate	SM 2220B	
					Alkalinity	SM 2520B	
					Acidity	SM 2510B	
					Nitrate	ASTM 835 SM 4500-NO3	
					Ammonia	ASTM 830 SM 4500-NH3	
					Sulfide	ASTM 4500-S2 SM 4500-S2	
					Moisture Content	ASTM D2216	
					Soil Corrosivity		
					Evaluation Report		
					Metallurgical		
					Analysis		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

APPENDIX E

Subsurface Information by Others



S I T E P L A N
 FIRE STATION NO. 6
 City of Hayward, California
 Project No. S-13345
 WOODWARD-CLYDE CONSULTANTS

Figure 1



LEGEND
 ⬦ Test Boring Locations


Project:

HAYWARD FIRE STATION NO. 6

Log of Boring No.

Date Drilled: _____ Hammer Weight: _____

Type of Boring: _____ Remarks: _____

Depth, Ft.	Samples	Blows/Ft.	DESCRIPTION	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength, psf
Surface Elevation:						
5			LEGEND SHEET FOR LOGS OF BORINGS			
10			2-INCH I.D. MODIFIED CALIFORNIA SAMPLER			
15			2½-INCH I.D. MODIFIED CALIFORNIA SAMPLER			
20		29	BLOW COUNTS WITH A 140-LB. HAMMER FALLING 30-INCHES			
25			 WATER LEVEL AT TIME OF DRILLING ATD			
30						

Project:
HAYWARD FIRE STATION NO. 6

Log of Boring No. 1

Date Drilled: 12-13-74 **Hammer Weight:** 140 Lbs.
Type of Boring: 6" Auger **Remarks:**

Depth, Ft.	Samples	Blows/Ft.	DESCRIPTION	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength, psf
Surface Elevation: 39.0 (Approx.)						
1	21		SILTY CLAY (CH) Stiff, Black, With Rootlet Holes Very Stiff Dark Brown-Gray Dark Gray-Brown	19	94	2100
5	2	49	SANDY SILTY CLAY (CL) Hard, Brown	19	105	2740
10	3	13	SANDY CLAY (CL) Stiff, Brown, With Clayey Sandy Silt and Clayey Sand Layers	19	105	1910
15	4	14	Silt (ML) With Sand Lenses	16	103	610
20	5	13	ATD	28	95	--
25	6	15	SILTY CLAY (CH) Stiff to Very Stiff, Dark Gray-Brown	23	104	2760
			SILTY CLAY (CL) Stiff, Gray-Brown	23	104	2760
			SANDY SILT (ML) Loose, Light Gray-Brown	26	96	--
			Bottom of Hole @ 25'			

Project:

HAYWARD FIRE STATION NO. 6

Log of Boring No. 2

Date Drilled: 12-13-74

Hammer Weight: 140 Lbs.

Type of Boring: 6" Auger

Remarks:

Depth, Ft.	Samples	Blows/Ft.	DESCRIPTION	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength, psf
Surface Elevation: 37.5 (Approx.)						
1	X	24	SILTY CLAY (CH) Stiff, Black, With Rootlet Holes ↓ Very Stiff, Dark Brown-Gray ↓ Very Stiff, Dark Gray-Brown	21	105	--
5			SILTY CLAY (CL) Very Stiff, Brown			
2	X	22	SANDY CLAY (CL) Stiff to Very Stiff, Brown, With Clayey Sand and Silty Clay Layers ↓ Stiff	20	106	--
3	X	12		27	96	--
15			ATD			
4	X	12	SILTY CLAY (CL) Stiff, Brown	31	93	--
20			Bottom of Hole @ 19'			

Project:
 HAYWARD FIRE STATION NO. 6

Log of Boring No. 3

Date Drilled: 12-13-74 **Hammer Weight:** 140 Lbs.

Type of Boring: 6" Auger **Remarks:**

Depth, Ft.	Samples	Blows/Ft.	DESCRIPTION	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength, psf
Surface Elevation: 38.5 (Approx.)						
1	X	39	SILTY CLAY (CH) Stiff, Black, With Rootlet Holes --Dark Brown-Gray --Dark Gray-Brown (CL-CH) --Dark Brown (CL)	20	106	5300
5						
2	X	22	SANDY CLAY (CL) Stiff to Very Stiff, Brown With Clayey Sand Lenses	17	108	--
10						
3	/	12	SILTY CLAY (CL) Stiff, Brown, With Clayey Silt and Sandy Silt Lenses	24	100	--
15			Bottom of Hole @ 14'			
20						
25						
30						

Project:
HAYWARD FIRE STATION NO. 6

Log of Boring No. 4

Date Drilled: 12-13-74 **Hammer Weight:** 140 Lbs.
Type of Boring: 6" Auger **Remarks:**

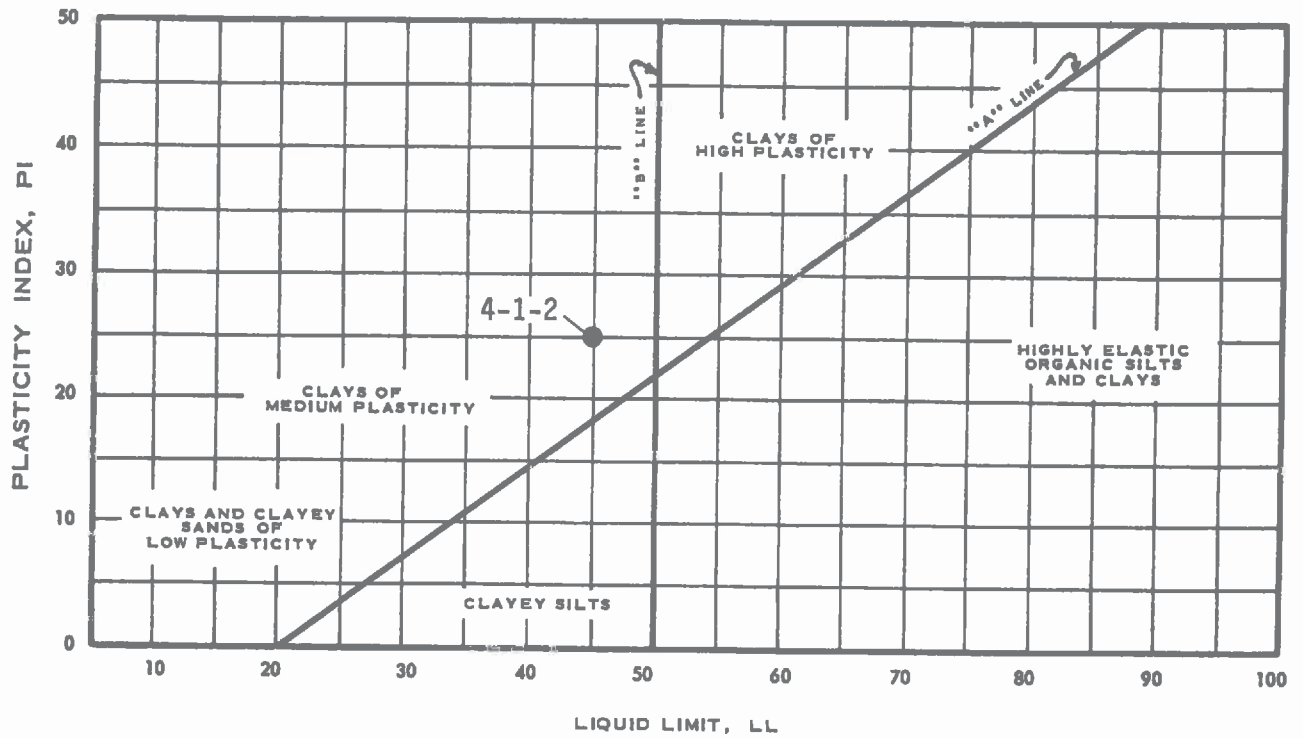
Depth, Ft.	Samples	Blows/Ft.	DESCRIPTION	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength, psf
Surface Elevation: 38.0 (Approx.)						
1		26	F I L L: Dark Gray Silty Clay With Traces of Rock Fragments S I L T Y C L A Y (CL-CH) Stiff to Very Stiff, Black, with Rootlet Holes ↓ Dark Brown-Gray ↓ Dark Gray-Brown	21	104	6210
2		19	S A N D Y S I L T Y C L A Y (CL) Stiff, Brown ↓ Grading to a Clayey Sandy Silt With Silty Sand and Silty Clay Layers	17	105	3440
3		14	← 1" Coarse Sand Lense Bottom of Hole @ 14'	21	103	--

Project:
HAYWARD FIRE STATION NO. 6

Log of Boring No. 5

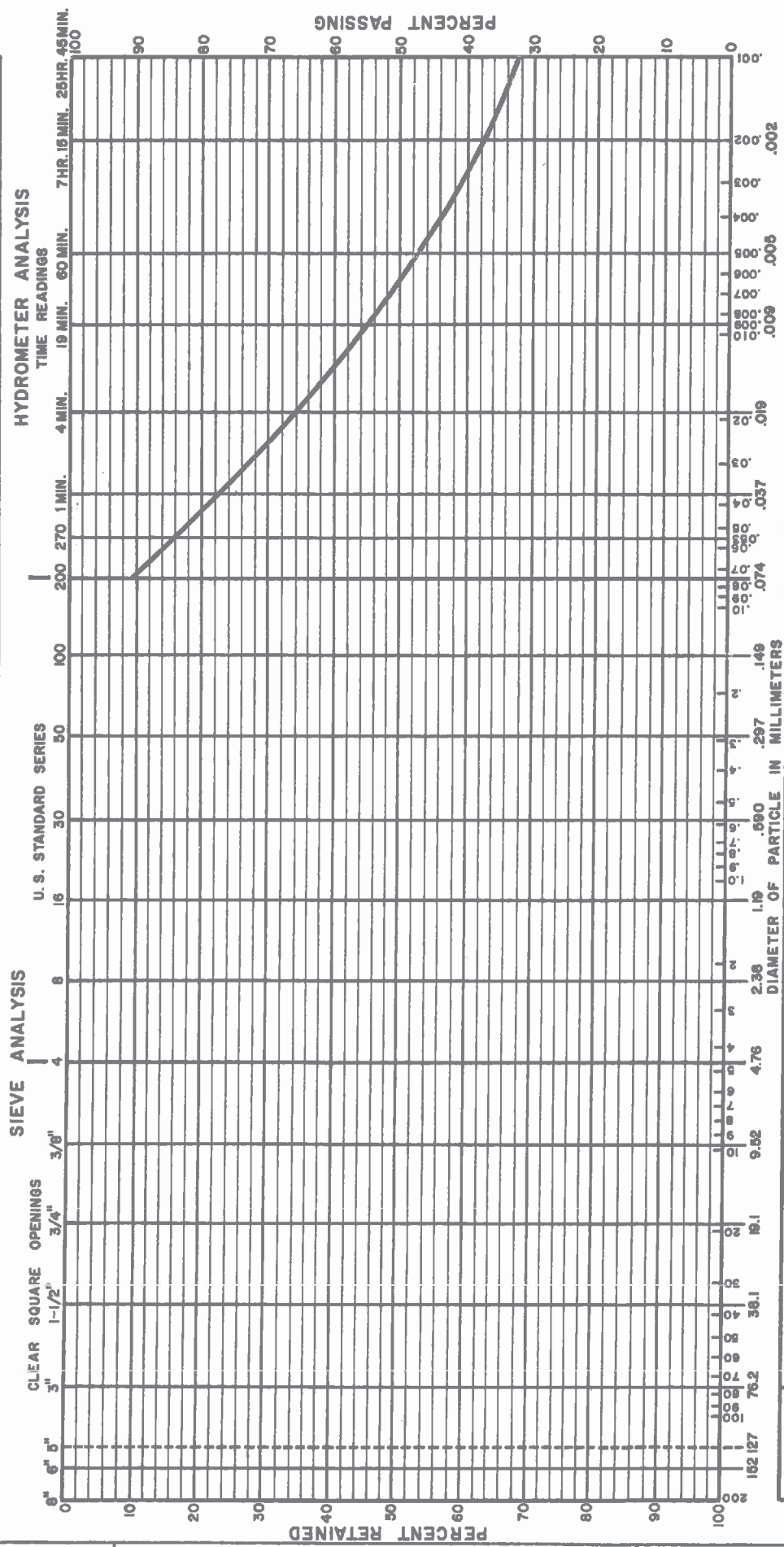
Date Drilled: 12-13-74 Hammer Weight: 140 Lbs.
Type of Boring: 6" Auger Remarks:

Depth, Ft.	Samples	Blows/Ft.	DESCRIPTION	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength, psf
Surface Elevation: 40.5 (Approx.)						
1	X	24	SILTY CLAY (CH) Stiff, Black, With Rootlet Holes Dark Brown-Gray	21	96	--
2	X	22	SANDY CLAY (CL) Stiff to Very Stiff, Brown Sandy Clayey Silt (ML)	17	110	3290
3	X	14	SILTY CLAY (CL): Stiff, Brown	12	105	1460
			SANDY CLAY (CL): Stiff, Brown			
Bottom of Hole @ 13.5'						



CLASSIFICATION TEST RESULTS								
SAMPLE IDENTIFICATION		ATTERBERG LIMITS			GRAIN SIZES - % DRY WEIGHT			
SAMPLE NO.	LETTER DESIGNATION	LIQUID LIMIT	PLASTICITY INDEX	SHRINKAGE LIMIT	SAND	SILT	CLAY	COLLOIDAL
4-1-2	--	45	25	--	9	43	48	32

SAMPLE NO. 4-1-2	SYMBOL --	DEPTH 3'	LL 45	PI 25	UNIFIED CLASSIFICATION (CL-CH)
-------------------------	------------------	-----------------	--------------	--------------	---------------------------------------



COBBLES	GRAVEL	SAND	CLAY (PLASTIC) TO SILT (NON-PLASTIC)
COARSE	FINE	MEDIUM	



TRANS TECH CONSULTANTS

Engineering and Environmental Compliance Services
License # 697833 (A-Haz)

PHASE I ENVIRONMENTAL SITE ASSESSMENT PER ASTM E1527-13

For the Property

1401 West Winton Avenue
Hayward, California

**A Portion of APN 432-0124-001-04
(Approximately 6.7 acres of 188 acre parcel)**

Date: February 1, 2018
TTC Job No.: 2684.01

Prepared for:

The City of Hayward
c/o RossDrulisCusenbury Architecture Inc.
18294 Sonoma Highway
Sonoma, CA 95476

We declare 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 and have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. For the purposes of this report, Bill C. Wiggins, P.E. is the Environmental Professional of record.

Prepared by:

William H. H. Coset
Project Geologist



Bill C. Wiggins, P.E.
Registered Civil Engineer

Table of Contents

SECTION	PAGE
1.0 Summary and Limitations	3
2.0 Introduction, Property Description	5
3.0 User Provided Information	6
4.0 Records Review	6
5.0 Site Reconnaissance	12
6.0 Interviews	14
7.0 Data Gaps	15
8.0 Findings/Conclusions	15
9.0 Qualifications of Environmental Professionals	16

Appendices

A.1 Study Site Map	
A.2 Email Response to Preliminary Site History Questions	
A.3 User Questionnaire	
A.4 Environmental Information from Environmental Data Resources	
A.5 File Review Documents	
A.6 Site Photographs	
A.7 Qualifications of Environmental Professionals	



1.0 Summary and Limitations

This presents the summary and limitations for Phase I Environmental Site Assessment (Phase I ESA) for the approximately 6.73-acre portion of the approximately 188-acre parcel identified as Alameda County Assessor's Parcel Number (APN) 432-0124-001-04. The 6.73-acre portion of the larger property has the street address of 1401 West Winton Avenue, Hayward, California and is currently occupied by the City of Hayward Fire Department Station #6. The format of this report is based upon the guidelines of the American Society of Testing and Materials (ASTM) 1527-13 Standard Practice for ESAs, All Appropriate Inquiries (AAI). The Study Site location and adjacent parcels shown on the Plate 1, Study Site Location Map, attached as Appendix A.1.

For the purposes of this report, the Study Site refers to the 1401 West Winton Avenue, City of Hayward Fire Station #6 and undeveloped area portion of APN 432-0124-001-04, as outlined on Plate 1, Study Site Location Map, attached as Appendix A.1.

A Phase I ESA looks for the following conditions:

Recognized Environmental Condition (REC): the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions. A de minimis condition generally does not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Controlled REC (CREC): a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Historical REC (HREC): 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The judgments, conclusions and recommendations described in this report pertain to the conditions judged to be present or applicable at the time the work was performed. Future conditions may differ from those described herein, and this report is not intended for use in future evaluations of the site unless a qualified professional conducts an update.



TTC did not evaluate the presence of suspected asbestos containing materials, lead paint, radon, or polychlorinated biphenyls (PCBs) in light ballasts, as this was outside of our scope. This Phase I ESA is limited to the data referenced herein, which was derived within the scope, budget, time and other limitations for this project. Certain information contained in this report was provided to TTC by third parties or other outside sources.

TTC does not make any warranties or representations, whether expressed or implied, regarding the accuracy of such information, and will not be held accountable or responsible in the event that any inaccuracies are present. This report should not be construed as a guarantee that all environmental liabilities associated with the property are herein included. If additional information is required, an additional investigation could be performed. TTC would need to prepare a cost estimate for additional services and obtain written authorization prior to proceeding with any additional work for this project.

This Phase I ESA has revealed no REC's, in connection with the Study Site. The Historical and Controlled REC at the Study Site has received closure from the appropriate regulatory agencies. There are operating underground storage tanks (USTs) at the site: permits, leak detection, and reporting appear to be current. The abandoned in place fuel line summarized in Section 4.2 does not meet the definition of an REC, however it does need to be addressed if any of the proposed development involves earthwork in that area: this will include obtaining proper removal permits and agency oversight. Please refer to Section 8.0, Findings and Conclusions.

This report is provided for the exclusive use by the City of Hayward as the User. Use by a third party requires written authorization from TTC and the City of Hayward.

1.1 Significant Assumptions

The Phase I ESA and AAI are intended to assess the environmental conditions of the referenced specific property. Under the AAI rule, a Phase I ESA alone does not provide the landowner with protection against CERCLA liability. Rather, it reflects a commercially prudent and reasonable inquiry designed to recognize environmental conditions in connection with a property. Failure to identify an environmental condition during an AAI does not relieve the landowner from complying with the statutory requirements for obtaining liability protections.

1.2 Limitations of Assessment

The conclusions regarding this property are based on observations of existing conditions and our interpretation of site history and site usage data. This service has been performed in accordance with generally accepted environmental assessment practices for similar Phase I ESAs conducted at this time and in this area. The results of this study are qualified by the fact that no drilling, sampling, or analytical testing was performed on the Site by TTC for the preparation of this report. Therefore, the conclusions presented do not represent a warranty that all areas within the Site are of the same quality as may be inferred from observable site conditions and readily available site history.



The findings of this audit do not preclude the existence of contaminants in the soil or groundwater below the Site which may not have been discovered by the limited audit methods used in this study. While we consider work of this type to be valuable in the preliminary evaluation of potential hazardous materials or waste at the Site, this assessment may not. Because of the limited nature of this assessment, this report is not a risk assessment and the scope of services does not include a determination of the extent of business environmental risk nor the public health impact of, known or suspected hazardous materials or wastes.

Federal, State, and local databases were accessed through Environmental Data Resources, (EDR) a database information retrieval service, and meet the ASTM E 1527-13 Standard for that requirement. Some local and regional database sources were accessed and/or reviewed directly by TTC personnel. The list of files and databases are summarized in Section 5.0. Although a diligent effort was made to access all relevant files, no guarantee can be made that our file search was all inclusive.

The regulatory agency file and records review including files available at federal, state, county and local public agencies, as outlined in Section 5.0. In some cases, site and/or file status may be determined by telephone interviews with staff persons of that office. The limited adjacent parcel observations are conducted during the Site observations, and are only observations made of adjacent parcels from the Site; no attempt is made to enter adjacent parcels. The format of this report generally follows the guidelines of the ASTM E 1527-13 Standard Practice for Environmental Site Assessments.

2.0 Introduction, Property Description

In performing this Phase I ESA, we researched, reviewed, and evaluated existing available public and regulatory agencies information and identified potential RECs within the study area that could impact the Site. Our scope of work included the following:

Observe the Site and limited adjacent property observations;

- Review the Site history/land use based on data obtained from representatives of the current owner and agency files;
- Review regulatory agency files and/or databases pertaining to the study area;
- Review study area historical aerial photographs and topographic maps;
- Prepare report summarizing the results of our work.

TTC performed the Phase I Environmental Site Assessment per ASTM Practice E1527-13 for the Study Site. The Study Site is approximately 6.7 acres in size. The Study Site is currently occupied by City of Hayward Fire Department Station #6, with the buildings on the western portion of the site and vacant, open land on the eastern portion. The Station House occupies the southern portion of the western side of the Study Site with training facilities and classrooms located on the northern side. The site visit and site photographs are discussed in Section 5.0. The Study Site is located on the Site Location Map, attached as Appendix A.1.



3.0 User Provided Information

Portions of some of the answers in Section 3.0 were obtained from a list of preliminary site history questions regarding Study Site ownership that were presented to the City of Hayward staff involved in the preparation of this Phase I ESA. A copy of the responses coordinated by Mr. Dave Hung, City of Hayward, is attached as Appendix A.2.

3.1 Environmental Liens or Activity and Use Limitations:

The User Questionnaire was completed and is attached as Appendix A.3. Environmental Liens or Activity and Use Limitations were not found at the Alameda County Assessor/Recorder.

3.2 Reason for Performing Phase I:

The Phase I will be used as a component along with other regulatory agencies permitting procedures, specifically for the CEQA review.

3.3 Valuation Reduction for Environmental Issues:

The User Questionnaire did not indicate any reduction in value.

3.4 Previous Reports and Documents

A statement from City of Hayward staff indicates that since the conveyance of the Study Site in 1947, it is not known what environmental assessments, if any, were conducted at the time. The City of Hayward did provide a copy of the document “Geotechnical Investigation for the Proposed Hayward Fire Station No. 6”, by Woodward-Clyde Consultants, dated January 14, 1975. The geotechnical investigation was performed to determine the soils properties prior to construction of the Fire Station #6 and consisted of drilling 6 soil borings and collected soil samples for geotechnical purposes. A review of the 6 boring logs did not indicate any adverse environmental concerns.

4.0 Records Review

4.1 Standard Federal, State, and Tribal Environmental Record Sources:

Please see attached EDR Radius Report in Appendix A.4. There are 14 sites noted in the regulatory agency database listed in the Study Area, one of which is the Study Site itself: 11 are closed sites (No Further Action) and three on-going soil and groundwater investigations. None of the on-going investigations is adjacent to the Study Site. The Study Site received site closure and the adjacent parcel to the west (Former Hayward Air National Guard Station (Hayward ANG)) has also received site closure for the Environmental Investigation Programs (ERPs) an Areas of Concern (AOC) that are adjacent to the west of the Study Site.



Based on the data reviewed for nearby groundwater investigations within ¼-mile of the Study Site, the groundwater flow direction has been primarily to the west and south-west. The groundwater gradient from the closest investigation, Hayward ANG adjacent parcel to the west, with 8 quarters of groundwater monitoring, reported the groundwater flow direction primarily to the west with gradients ranging from 0.0023 feet/foot (ft/ft) to 0.0043 ft/ft. The sites listed in the regulatory agency files reviewed that were upgradient (to the northeast) of the assumed groundwater flow direction to the Study Site were either closed (No Further Action) or the contamination had not left the respective site. The site closest to the Study Site in the upgradient location is the Former Hayward Jet Center, 21889 Skywest Drive, approximately 2,400 feet north east of the Study Site. This site obtained closure as outlined in the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) letter dated December 5, 2013.

The Study Site is listed in local regulatory agency files reviewed for having permits for two underground storage tanks (USTs) and also for having removed three USTs and successfully obtaining Site Closure. The details are summarized in Section 4.2.

4.2 Regulatory Agency File and Records Review:

Summaries of agency file reviews are presented below:

Hayward Fire Department

On December 27, 2017 a review of the Hayward Fire Department (HFD) files for the Study Site was performed. The HFD is a Certified Unified Program Agency (CUPA) and therefore oversees soil and groundwater investigations and remediations within the City of Hayward and are responsible for Hazardous Materials Business Plans and site inspections. The following is a summary of the file review.

1401 West Winton, HFD:

Inspection Reports reviewed in the HFS files indicated items that need to be corrected, however these items are considered de-minimus for this report and were corrected by the next inspection.

Three underground storage tanks (USTs) and dispensers were removed from the site in March 1999, and were replaced with the two UST system currently in use. Soil samples collected during the USTs after removal indicated a discharge(s) had occurred. Details of the soil and groundwater investigation performed to characterize this release are below in the SFBRWQCB file review section, below.

A review of the data available indicates that only one soil sample from the product line removal in 1999 was collected and analyzed. Monitoring System Certification and Secondary Containment Test Reports for the UST system indicate a product line that runs from the USTs to the backup generator located on the northern side of the Fire Station Building. This product line is listed as Piping Run #5, approximately 140 feet in length and 4-inches in diameter, in all but the latest Monitoring System Certification submittals.



An interview during the HFD file review and telephone conversations follow up with Mr. Hugh Murphy, Hazardous Materials Program Coordinator, HFD, indicated that it is believed that Piping Run #5 was abandoned in place due to the absence of secondary containment and the generator it fueled had been replaced with a belly-tank style of generator. A copy of the TEC Accutite document “Secondary Containment Test Report Form”, dated October 17, 2011, showing the location of Piping Run #5 and the last pressure test results is attached in Appendix A.5.

The file review did reveal that in 2015 there were violations with the UST system that were brought to the attention of SFBRWQCB. The following is a summary of the documents reviewed:

- A letter from SFBRWQCB, “Notice of Violation Letter”, dated June 4, 2015, indicated that reviews and inspections that there were 8 violations regarding the USTs present at site and a request was made to correct the items listed.
- A document from TEC Accutite, “Monitoring System Certification”, dated November 2, 2015 certified that the various violations had been repaired and/or corrected, the UST system was now in compliance.
- The SFBRWQCB issued a letter, “Return to Compliance” dated January 14, 2016 indicating the after review of the documentations submitted that the UST system was now in compliance.

None of the violations or observations made during the corrections indicated an unauthorized release of product. Copies of the three documents listed above are attached as Appendix A.5.

1321 West Winton Ave, Pacific Roller Die, Co.

A review of the HFD files indicates that Pacific Roller Die, Co., Adjacent parcel to the south, is a small quantity hazardous waste generator and has a current Hazardous Materials Business Plan on file. No violations were noted that caused further regulatory agency oversight.

San Francisco Bay Regional Water Quality Control Board

A review of the SFBRWQCB files on the Geotracker website indicated that there was a regulatory mandated investigation and cleanup for the USTs removed in 1999 listed for the Study Site.



The following is a summary of the document “Site Summary Closure”, by the Hayward Fire Department, dated May 28, 2009:

- Three USTs and dispensers were removed from the site in March 1999. Soil samples collected during the USTs removals indicated a discharge(s) had occurred.
- Groundwater was not encountered during the USTs removal, however approximately 1,200 gallons of rainwater was pumped from the excavation and disposed of off-site in April 1999.
- 184 tons of impacted soil was excavated from the tank pit and piping trenches and was disposed of off-site in May 1999.
- A total of 9 soil samples and six grab groundwater samples were collected and analyzed from eight soil borings advanced around the former USTs locations in November 2008. The analytical test results of the soil samples indicated the extent of the contamination has been characterized. Five of the six grab groundwater samples indicated non-detectable concentrations of all analytes tested for and the sixth sample was just above the reporting limits.
- The staff of the Regional Water Quality Control Board – North Coast Region (Water Quality) recommended a No Further Action letter be issued.

Based on the data submitted to the oversight agencies, SFBRWQCB issued a Closure Letter, dated July 16, 2009. A copy of this Closure Letter is attached as Appendix A.5.

County Alameda Assessor’s Office

A review of the files available indicate that ownership of the Study Site matches what has been determined from review of other sources. The City of Hayward has been the owner since 1947.

California Department of Water Resources

The State Water Resources GeoTracker website (GeoTracker) contains data from the following agencies:

- Cal EPA Department of Toxic Substance Control (DTSC)
- California Environmental Reporting Services (CERS)
- California Regional Water Quality Control Board – San Francisco Bay Region (SFBRWQCB)
- County of Alameda Environmental Health (AEH)
- City of Hayward Fire Department (SRFD)



1525 West Winton Avenue

(Hayward Air National Guard (Hayward Executive Airport) Adjacent parcel to north and east.)

As described in Section 4.1 the Hayward ANG conducted Preliminary Assessments, Site Investigations, and Remedial Investigations as part of the base closure. The following is a summary of characterization and remediation activities from the document “Final Environmental Restoration Program, Focused Feasibility Study, by ERM, dated February 2012 and “Final Environmental Restoration Program, Site Closeout Report” by National Guard Bureau, dated June 2017:

- The site characterization included the installation of 280 soil borings and 51 monitoring wells,
- Approximately 1,000 soil and groundwater samples were analyzed.
- The soil and groundwater analysis were determined by the historical activities at a particular location.

The ANG defined areas of concern in one of two ways, as an Environmental Restoration Program (ERP) or as an Area of Concern (AOC). An ERP was an area where soil and/or groundwater remediation occurred. An AOC was an area where samples indicated concentrations of analytes higher than background concentrations with the stipulation if any underground work was to be done in that area necessary precautions were to be taken.

On the perimeter of the former Hayward ANG site adjacent to the western perimeter of the Study Site, an ERP and an AOC were located. The ERP was listed as ERP Site 7, an equipment maintenance area. Impacted soil was removed from this area in 2005 and verification samples were collected. Groundwater samples collected from the three groundwater monitoring wells in ERP 7 (007-01MW, 007-02MW, and 007-03MW) all reported nondetectable concentrations for all analytes tested (8 quarterly samplings over a two year period). The groundwater flow direction was reported as a consistent westerly direction. The location of ERP 7 and the groundwater monitoring wells is shown in Figures 2 and 2-3, Groundwater Investigations during 2009-2010 Field Investigations, Final Record of Decision Environmental Restoration Program, dated December 2012, copies of which are enclosed in Appendix A.5.

Reviews of the files on the State Water Resources GeoTracker website verified the EDR report and local agency file review findings.

4.3 Standard Historical Sources

Aerial Photographs

Aerial photos available on the Google Earth was reviewed on-line, as well as EDR Aerial Photo Decade Package, Appendix A.4. The aerial photographs from 1939, 1946, 1958, 1963, 1974, 1982, 1993, 2000, and 2012 that were reviewed are summarized below:



1939: The Study Site and adjacent parcels to the west, north and east are agriculture land. Russel Avenue (currently West Winton Avenue), adjacent parcel to the south, is present.

1946: The Study Site is vacant with the exception of orchards present on the southwest corner. The orchards extend into the adjacent parcel to the west. The airstrip is present to the north.

1958: The Study Site is vacant. A smaller building housing the current configuration of Pacific Roller Die is present to the south. The Hayward Air National Guard (Hayward ANG) facilities are present to the north and west, however there are no buildings (ERP 7 and AOC M) directly adjacent to the western perimeter of the Study Site. West Winton Avenue, adjacent parcel to the south, has been widened.

1963: Similar to the 1958 photo, there has been some grading in the approximate center of the Study Site. The building on the Pacific Roller Die site is larger.

1974: The Study Site is unchanged from the 1963 photo. The Hayward ANG buildings that are adjacent to the western perimeter of the Study Site are now present. The Pacific Roller Die building to the south is larger. West Winton Avenue has been expanded. 1982: Firehouse #6, the firehouse office, the training tower, and Butler Building are present. The adjacent parcels all appear essentially the same as observed during the January 8, 2018 site visit.

1993: The Study Site and adjacent parcels are essentially the same as the 1982 air photo.

2012: The Study Site and adjacent parcels are essentially the same as the 1993 air photo with the exception of the Crash Tent structure adjacent to the main office building is now present.

Fire Insurance Maps

The Study Site is not mapped on the Sanborn Fire Insurance Maps. A copy of the insurance map report from EDR is included in Appendix A.4.

Assessor/Title Research

The past owners information used in this report were obtained from the practically reviewable documents in the County of Alameda Assessor's office and from knowledgeable party interviews indicate that City of Hayward took possession of the Study Site and Hayward ANG property in October 1947.

ASTM E1527-13 3.2.69 Practically Reviewable: information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally practically reviewable. Most databases of public records are practically



reviewable if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable.

USGS Topographic Maps

Please see EDR Historical Topographic Map Report, Appendix A.4. Topographic maps dated 1899, 1915, 1947, 1957, 1968, 1973, 1980, and 2012 were reviewed and the following is a summary of findings:

The Study Site and adjacent properties reviewed on the historical topographic maps from 1899 through 2012 indicated the same development(s) as seen on the aerial photographs, described above and observed during the site visit.

Local Street Directories

The EDR City Directory Image Report was reviewed for former tenants at the Study Site, see Appendix A.4. the listings for the tenants of the Study Site align with the findings during the agency file reviews.

4.4 Summary of Study Site Tenants

Based on information proved by the User representatives, review of regulatory agency files, and EDR database search, the Study Site has only had the Hayward ANG and the City of Hayward Fire Department Fire Station #6 as tenants.

5.0 Site Reconnaissance

Site reconnaissance by Bill Coset occurred on January 7, 2018. The Battalion Chief was available at the time of the site reconnaissance, however the questions and building names were obtained from front desk staff.

Observations were made on the Study Site and the adjacent parcels. Observations were made for storage of hazardous materials, signs of mishandling of hazardous materials, staining or spills, and distressed vegetation.

There are several burned cars used for fire-fighting training located on the northern perimeter of the Western Portion. There is also a single-prop airplane located in this area, also used for fire-fighting training. No impact to the study site was observed from the presence of these vehicles. There are bins of wood used to simulate structure fires in the Training Tower. There were also numerous, empty, 55-gallon plastic drums that contained Ansulite ARC, a foaming agent used for fighting fires. No impact to the study site was observed from the presence of these drums. There is the storage and use of oils, lubricants, and solvents located in the Firehouse building, however these are all small quantities in commercial packaging. These items are used in the Fire Station #6 building with a concrete pad foundation. There are selected site photographs showing these items from the January 7, 2018, site visit presented in Appendix A.6



5.1 Property and Vicinity General Characteristics:

The Study Site is approximately 6.7 acres in size, with a chain link fence on the eastern and southern perimeters. The northern perimeter is open to the Hayward Executive Airfield. The southern perimeter of the Study Site has parking areas for visitors to Fire Station #6, the fire station building, and access gates to the northern portion of the property. Please see the Site Map attached as Appendix A.1.

The Study Site is relatively flat with a gentle slope to the south. For purposes of this report the Study Site will be referred to as the Western Portion and the Eastern Portion. The Western Portion is developed, and the Eastern Portion is open land.

In the approximate center of the southern portion of the Study Site is another parcel, not owned by the City of Hayward. This parcel has the Study Site as the adjacent parcels on the west, north, and east sides. The following is a summary of the adjacent parcels to the Study Site:

- The Hayward Executive Airport, 20301 Skywest Drive, is adjacent to both the west and north.
- West Winton Avenue is the adjacent parcel to the south with the exception of approximate center of the southern portion which is adjacent to Pacific Roller Die Company, 1321 West Winton Avenue.
- Open undeveloped land of the Hayward Executive Airport is adjacent to the east.

5.2 Descriptions of Structures, Roads, Other Improvements on the property (including heating/cooling system, sewage disposal, source of potable water):

The Study Site is serviced for potable water and sewer by the utilities maintained by the City of Hayward. Electric and natural gas for the Study Site was provided by Pacific Gas and Electric (PG&E). There were no transformers on overhead poles on, or near the study site.

The majority of the Western Portion of the Study Site is covered by the six structures that make up Fire Station #6 and the City of Hayward Fire Department Training Facility which include:

- Fire Station #6 Building on the southern portion of the Study Site.
- Training Facility and Main Office building on the eastern perimeter of the Western Portion.
- The fire academy training tower building in the approximate center.
- The crash tent (storing equipment for responses on the airport facility) on the eastern perimeter of the Western Portion.
- The Butler Building (fire academy training equipment and classrooms) in the northwest corner of the Western Portion.



- The remainder of the Western Portion is covered by asphaltic concrete driveways and parking areas and landscaping on the southern portion, adjacent to West Winton Avenue.

The eastern portion of the Study Site is vacant, open fields covered by mowed weeds and grass. There is a concrete aircraft parking are in the approximate center of the norther perimeter of the Eastern Portion.

Selected site photographs from the January 7, 2018 site visit are attached in Appendix A.6.

There are two USTs with two dispensers located in the drive area top the of the Station #6 building. The USTs contain gasoline and diesel fuel for the HFD vehicles. There are also two backup emergency generators located on the northern side of the Fire Station #6 building. As discussed in Section 4.2, the out of service generator is located along the western portion of the north wall of the Station #6 building and the in-service generator with the self-contained fuel supply is along the eastern portion of the north wall of the Station #6 building.

6.0 Interviews

6.1 Interview with Owners/Occupants

Questions regarding Study Site history and usage were submitted to the City of Hayward. Mr. Dave Hung of the City of Hayward Public Works. Mr. Hung responded in an email dated December 15, 2017. The following is a summary to the responses

- The property was first developed in 1942 by the U.S. Army Corps of Engineers as the Hayward Army Airfield. In April 1947 the 690-acre airfield (including the Study Site) was conveyed to the City of Hayward.
- While no official record of the tenants is available, the U.S. Army Air Corp and California Air National Guard are the only other tenants.
- It is not known if any environmental assessments were performed in the conveyance in 1947. The only available document was the Geotechnical Investigation performed for the Study Site prior to the construction of Fire Station (see Section 3.4).

A copy of the December 15, 2017, email response is attached as Appendix A.2.

6.2 Interview with Key Site Manager

See Section 6.3.

6.3 Interview with State and Local Officials

As stated in Section 4.2, the HFD is the CUPA and during the December 27, 2017 file review and subsequent telephone conversation on January 25, 2018, Mr. Hugh Murphy, Hazardous Materials Program Coordinator, City of Hayward Fire Department was interviewed regarding both inspection reports and hazardous materials storage at the Study Site. There are currently



2 USTs, one gasoline and one diesel, and a single dispenser at the Study Sites that have current operating permits. There are also two backup emergency generators located on the northern side of the Fire Station #6 building. As discussed in Section 4.2, the out of service generator is located along the western portion of the north wall of the Station #6 building and the in-service generator with the self-contained fuel supply is along the eastern portion of the north wall of the Station #6 building.

During the January 25, 2018, follow up interview we further discussed the possibility of Piping Run #5 being abandoned in place and Mr. Murphy indicated that it was his belief the piping had not been removed, but abandoned in place, however he was not the inspector during the USTs removal and replacement in 1999.

7.0 Data Gaps

A Data Gap is defined by the Standard as a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). The Data Gaps identified are discussed in Section 8.0.

8.0 Findings/Conclusions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the Study Site. No exceptions to, or deletions from, this practice were encountered during the preparation of this Phase I ESA.

The two USTs are documented storage and handling of hazardous materials at the site. There is the storage and use of oils, lubricants, and solvents located in the Firehouse building, however these are all small quantities in commercial packaging. These items are used in the building with a concrete pad foundation. The presence of vehicles used for fire-fighting training did not have an obvious environmental impact to the study site. There were no Data Gaps identified for this report. While there was no definitive documentation regarding the removal of Piping Run #5, this is not considered a Data Gap, as agency files and agency interviews addressed the issue.

This Phase I ESA has revealed no REC's, in connection with the Study Site. The Historical and Controlled REC at the Study Site has received closure from the appropriate regulatory agencies. There are operating underground storage tanks (USTs) at the site: permits, leak detection, and reporting appear to be current. The abandoned in place fuel line summarized in Section 4.2 does not meet the definition of an REC, however it does need to be addressed if any of the proposed development involves earthwork in that area: this will include obtaining proper removal permits and agency oversight.



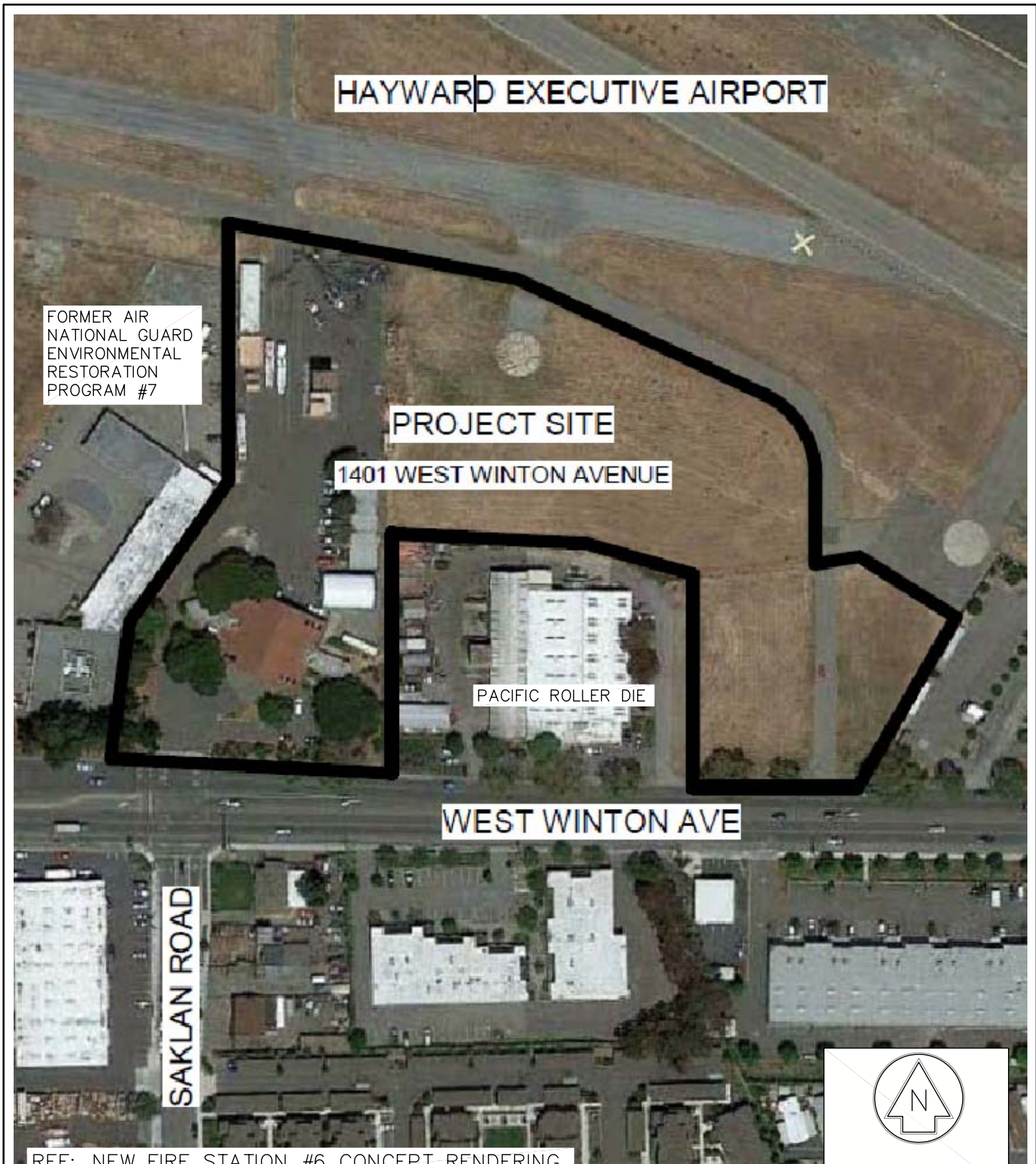
9.0 Qualifications of Environmental Professionals

The Qualifications of the Environmental Professionals that prepared this Phase I ESA are attached as Appendix A.7.

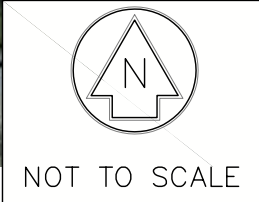


A.1 Study Site Map





REF: NEW FIRE STATION #6 CONCEPT-RENDERING
 ROSS DRULESS CUSENBERRY, APRIL 2017



930 SHILOH RD., BLDG. 44, SUITE J
 WINDSOR, CA 95492
 PHONE: 707-837-8408 FAX: 707-837-7334

STUDY SITE LOCATION MAP

HAYWARD FIRE STATION #6
 1401 WEST WINTON AVE
 HAYWARD, CA 94545

PLATE:

1

DRAWN BY: MAL	DWG NAME: 2684.01_BASE	APPR. BY: WHHC	JOB NUMBER: 2684.01	DATE: 02/01/2018
------------------	---------------------------	-------------------	------------------------	---------------------

A.2 Email Response to Preliminary Site History Questions





Bill Coset <billcoset@transtechconsultants.com>

RE: HWFT - Phase 1 Environmental Site Analysis

1 message

Dave Hung <Dave.Hung@hayward-ca.gov>

Mon, Dec 11, 2017 at 1:45 PM

To: Edwin Wilson <ewilson@rdcarchitecture.com>

Cc: Michael Ross <mross@rdcarchitecture.com>, Bill Coset <billcoset@transtechconsultants.com>

Edwin,

Please see response in red to questions. 2.0 to 4.0.

For the below mentioned report, **Final Environmental Restoration Program Remedial Investigative Report issued in February 2012, it can be found from the following link:**

https://linkprotect.cudasvc.com/url?a=http://afcec.publicadmin-record.us.af.mil/Search.aspx&c=E,1,S8Nqn_I_hOvMhbh5OgNB0y-BFc6IFIVx7KugUE9ZmEuMO5FMtsv1ceIPXf-gFMqo_-ax62vYoJAZZ_QQR41ZH5hs03xpey4-l-y55TcX&typo=1

To get to documents:

- 1) Choose 'Air National Guard' button
- 2) Selection 'Hayward Municipal Airport, CA
- 3) Click on 'Search'
- 4) 212 records will populate
- 5) Click 'View' to see selected document

If you have any remaining questions related to the Air National Guard site, you may contact:

Mark Dickerson, GS-13

Restoration Program Manager

Shepperd Hall, NGB/A7OR

3501 Fetchet Avenue

Joint Base Andrews, MD 20762

[\(240\)612-8445](tel:(240)612-8445)

2.0 Site History:

When did the City of Hayward purchase the Study Site and/or the entire 188-acre parcel?

Is there a Chain of Title available for review?

Hayward Executive Airport was constructed in 1942 by the U.S. Army Corps of Engineers and was originally Hayward Army Air Field. After World War II, many military airfields across the country were declared surplus property, including Hayward Army Airfield. Under the authority of Executive Order 9689 and the Surplus Property Act of 1944, on April 16, 1947 the War Assets Administration conveyed the 690-acre airfield to the City of Hayward through a Quit Claim Deed. A Bill of Sale was executed between the parties on October 20, 1947. These documents establish the City as the owner of the airport. The leasehold for FS6 and the FTC are located on airport property.

Is a list of occupants/tenants since the City of Hayward has held title available for review?

Other than the U.S. Army Air Force and the California Air National Guard, based on conversation with knowledgeable persons, there were/are no other known tenants on the proposed leasehold. However, there is no official record of tenants for reference.

3.0 Previous Studies/Reports:

Was a Phase I and/or Phase II Environmental Site Assessment performed as a component of the purchase? If yes, is a copy of the report(s) available for review?

Because the land was conveyed to the City in 1947, it's not known what environmental assessments, if any, were conducted at that time.

Have any geotechnical investigations been performed for any of the development on the Study Site and/or the entire 188-acre parcel? Are any of the geotechnical reports available for review?

This is unknown. The U.S. Army Air Force and the California Air National Guard (CANG) occupied a site in the vicinity of the 188-acre parcel from 1942 until 1980. Beginning in 1991, a number of geotechnical investigations were conducted on the CANG site, and environmental remediation work took place from 2009 to 2017. The findings and the scope of the remediation work can be found in the "Final Environmental Restoration Program Remedial Investigative Report issued in February 2012 by the Air National Guard. We have one copy here, and there should be one in City Hall.

You may have received previously, see attached Geotech report for FS6.

4.0 Storage of Hazardous Materials:

Are you aware of any storage and/or releases of hazardous materials at the Study Site and/or the entire 188-acre parcel?

This is unknown. The U.S. Army Air Force and the California Air National Guard (CANG) occupied a site in the vicinity of the 188-acre parcel from 1942 until 1980. Beginning in 1991, a number of geotechnical investigations were conducted on the CANG site, and environmental remediation work took place from 2009 to 2017. The findings and the scope of the

remediation work can be found in the "Final Environmental Restoration Program Remedial Investigative Report issued in February 2012 by the Air National Guard.

From: Edwin Wilson [mailto:ewilson@rdcarchitecture.com]
Sent: Thursday, November 16, 2017 5:08 PM
To: Dave Hung <Dave.Hung@hayward-ca.gov>
Cc: Michael Ross <mross@rdcarchitecture.com>; Bill Coset <billcoset@transtechconsultants.com>
Subject: HWFT - Phase 1 Environmental Site Analysis

Dave -

Attached is a Questionnaire from Trans Tech Consultants to commence their work on the requested Phase 1 Environmental Analysis for the Hayward Fire Station #6/Fire Training Center project.

Please review and forward to the appropriate City staff as soon as possible. Bill Coset at Trans Tech (copied here) thought that the Real Estate Division (if applicable to the City of Hayward) would be logical - unless Hugh Murphy will be handling this in his position as Hazardous Materials Program Coordinator.

Bill would like to set up a site visit and interview (either in-person or on the phone) as soon it can be arranged. The logistics for this can be set up directly with Bill, but please keep RDC in the loop communication-wise.

Thanks!

Edwin Wilson, AIA, CSI

Senior Architect

RossDrulisCusenbery Architecture Inc.

18294 Sonoma Highway

Sonoma, CA 95476

707 996 8448 e 102

ewilson@rdcarchitecture.com

www.rdcarchitecture.com



Soils Report #204_Fire Station #6.pdf

1290K

A.3 User Questionnaire



X3. USER QUESTIONNAIRE INTRODUCTION

**Hayward Fire Station #6 and Regional ARFF Fire Training Center
1401 West Winton Avenue
Hayward, CA 94545**

In order to qualify for one of the *Landowner Liability Protections (LLPs)*¹⁸⁷ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “*Brownfields Amendments*”),¹⁸⁸ the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that “*all appropriate inquiries*” is not complete.

(1.) Environmental liens that are filed or recorded against the *property* (40 CFR 312.25).

Did a search of *recorded land title records* (or judicial records where appropriate, see **Note 1** below) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?

NOTE 1—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

Not applicable since the property is not being purchased and belongs to the City of Hayward.

(2.) Activity and use limitations that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and vi).

Did a search of *recorded land title records* (or judicial records where appropriate, see **Note 1** above) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?

Not applicable since the property is not being purchased and belongs to the City of Hayward.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Fire Station and Fire Training Center is unique at this location and are not involved in the same line of businesses of adjoining properties.

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

In the past, the fair market value for the property in question was estimated at approximately \$13 million.

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example,

(a.) Do you know the past uses of the *property*? **Since the mid-1970's, the site has been utilized as a fire station and a fire training center. According to aerial maps from 1954 and 1968, the parcel appears to show no visible signs of development prior to the mid-1970's.**

(b.) Do you know of specific chemicals that are present or once were present at the *property*?
15 gallons of Q-SOL.

(c.) Do you know of spills or other chemical releases that have taken place at the *property*?
No known.

(d.) Do you know of any environmental cleanups that have taken place at the *property*?
No known.

(6.) The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*?

No known.

¹⁸⁷ *Landowner Liability Protections*, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("Common Elements" Guide) issued on March 6, 2003.

¹⁸⁸ P.L. 107-118

A.4 Environmental Information from Environmental Data Resources



Hayward Fire Station #6
1401 West Winton Avenue
Hayward, CA 94545

Inquiry Number: 5110454.2s
November 17, 2017

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	283
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-6
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission. EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1401 WEST WINTON AVENUE
HAYWARD, CA 94545

COORDINATES

Latitude (North): 37.6543040 - 37° 39' 15.49"
Longitude (West): 122.1176510 - 122° 7' 3.54"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 577832.8
UTM Y (Meters): 4167621.8
Elevation: 41 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5640616 HAYWARD, CA
Version Date: 2012

Northwest Map: 5641120 SAN LEANDRO, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140608
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
1401 WEST WINTON AVENUE
HAYWARD, CA 94545

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	HAYWARD FIRE STATION	1401 WINTON AVE W	RGA LUST		TP
A2	HAYWARD FIRE STATION	1401 WINTON AVE W	RGA LUST		TP
A3	FIRE STATION #6	1401 W WINTON AVE	Alameda County CS, HIST UST		TP
A4	CITY OF HAYWARD FIRE	1401 W WINTON AVE	FINDS		TP
A5	COH - FIRE STATION #	1401 WINTON AVE WEST	FINDS		TP
A6	HAYWARD FD HOUSEHOLD	1401 W WINTON AVE	LUST, RCRA NonGen / NLR, FINDS, ECHO, HIST CORTESE		TP
A7	COH - FIRE STATION #	1401 WINTON AVE WEST	UST		TP
A8	FIRE STATION #6	1401 W WINTON AVE	SWEEPS UST, HIST UST, CA FID UST, EMI		TP
A9	FIRE STATION #6	1401 WINTON AVE N	RGA LUST		TP
A10	CITY OF HAYWARD FIRE	1401 WEST WINTON AVE	HAZNET		TP
A11	CITY OF HAYWARD FIRE	1401 WINTON AVE W	FINDS		TP
A12	CITY OF HAYWARD FIRE	1401 WINTON AVE W	RGA LUST		TP
B13	SUPER OIL CHANGE & T	1294 WINTON AVE W	LUST, HIST CORTESE	Higher	129, 0.024, SSE
B14	MAGIC LUBE & TUNE/MI	1294 W WINTON AVE	SWEEPS UST, CA FID UST	Higher	129, 0.024, SSE
C15	CASCADE CHEVRON	1490 W WINTON AVE	EDR Hist Auto	Lower	331, 0.063, SW
C16	92263	1490 W WINTON AVE	HIST UST	Lower	331, 0.063, SW
C17	CHEVRON	1490 WINTON AVE W	LUST, HIST CORTESE	Lower	331, 0.063, SW
C18	CASCADE CHEVRON	1490 W WINTON AVE	SWEEPS UST, CA FID UST	Lower	331, 0.063, SW
D19	JACKS CLRS & SHIRT L	1214 W WINTON AVE	EDR Hist Cleaner	Higher	373, 0.071, ESE
D20	JACK'S CLEANER'S & S	1214 WEST WINTON	DRYCLEANERS	Higher	373, 0.071, ESE
E21	LAVISTA, SAKLAN	22958 SAKLAN ROAD	RCRA-CESQG	Lower	493, 0.093, SSW
E22	LA VISTA LLC	22958 SAKLAN ROAD	ENVIROSTOR, VCP, DEED	Lower	493, 0.093, SSW
F23	ALHAMBRA HAYWARD	22950 CLAWITER	HIST CORTESE	Lower	601, 0.114, SW
G24	ALAMEDA NEWSPAPERS (1500 WEST WINTON AVE	CA FID UST	Lower	727, 0.138, WSW
G25	URBANITE	1500 W WINTON AVE	RCRA-SQG, SWEEPS UST, HAZNET	Lower	727, 0.138, WSW
F26	CLERKS BUILDING MATE	23040 CLAWITER ROAD	Notify 65	Lower	752, 0.142, SSW
F27	CLARKS HOME & GARDEN	23040 CLAWITER	LUST, Alameda County CS, HIST CORTESE	Lower	752, 0.142, SSW
F28	DE SILVA GATES CONST	22991 CLAWITER RD	AST	Lower	849, 0.161, SW
F29	OLIVER DE SILVA INC	22991 CLAWITER RD	RCRA-SQG, LUST, SWEEPS UST, HIST UST, CA FID UST,...	Lower	849, 0.161, SW
F30	DESILVA GATE CONSTRU	22991 CLAWITER ROAD	AST	Lower	849, 0.161, SW
F31	DOUBLE D TRANSPORATI	22991 CLAWITER RD	RCRA NonGen / NLR, HAZNET	Lower	849, 0.161, SW
G32	USANG CA HAYWARD BAS	1525 WEST WINTON AVE	RESPONSE, ENVIROSTOR, HIST Cal-Sites, SWEEPS UST,...	Lower	863, 0.163, WSW
G33	HAYWARD AIR NATIONAL	HAYWARD AIR NATIONAL	SEMS, RCRA-SQG	Lower	863, 0.163, WSW
G34	CALIFORNIA AIR NATIO	1525 WINTON AVE W	SLIC, HIST CORTESE	Lower	863, 0.163, WSW
H35	ALHAMBRA HAYWARD	22990 CLAWITER RD	LUST	Lower	968, 0.183, SSW
H36	ALHAMBRA NATIONAL WA	22990 CLAWATER ROAD	HIST UST	Lower	968, 0.183, SSW
H37	ALHAMBRA NATIONAL WA	22990 CLAWITER RD	HIST UST	Lower	968, 0.183, SSW
H38	ALHAMBRA NATIONAL WA	22990 CLAWITER RD	LUST, SWEEPS UST, CA FID UST	Lower	968, 0.183, SSW
39	EDEN 3 PROPOSED DEVE	23645, 23653 EDEN AV	ENVIROSTOR, VCP	Lower	1142, 0.216, SSE

MAPPED SITES SUMMARY

Target Property Address:
1401 WEST WINTON AVENUE
HAYWARD, CA 94545

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	BOB QUATMAN	22390 THUNDERBIRD PL	SWEEPS UST, CA FID UST, HAZNET	Lower	1197, 0.227, SW
41	OAKLAND FENCE COMPAN	1580 WINTON AVE W	LUST, SWEEPS UST, HIST CORTESE	Lower	1271, 0.241, WSW
42	TRIDENT TRUCK LINE	23250 CLAWITER RD	LUST, HIST CORTESE	Lower	1495, 0.283, SSW
I43	CUHNA PROPERTY	22409 THUNDERBIRD	LUST, HIST CORTESE	Lower	1520, 0.288, SW
I44	CUNHA PROPERTY	22409 THUNDERBIRD PL	LUST	Lower	1520, 0.288, SW
45	BERKELEY LAND COMPAN	23555 SAKLAN RD	LUST, Alameda County CS, HIST CORTESE	Lower	1575, 0.298, South
46	GEO-CON INC.	1764 NATIONAL AVE	LUST, SWEEPS UST, CA FID UST, HIST CORTESE	Lower	1578, 0.299, SSW
J47	ADOLPH P SCHUMAN MAR	23958 HESPERIAN BLVD	DEED, HAZNET	Higher	1625, 0.308, East
J48	AIRPORT PLAZA	23958 HESPERIAN BOUL	SLIC, EMI	Higher	1636, 0.310, East
J49	AIRPORT PLAZA	23958 HESPERIAN BOUL	SLIC	Higher	1636, 0.310, East
J50	AIRPORT PLAZA PROPER	23956-58 HESPERIAN B	Alameda County CS	Higher	1636, 0.310, East
J51	EXXON R/S 7-0218	23990 HESPERIAN BLVD	Alameda County CS, SWEEPS UST, CA FID UST, HAZNET	Higher	1694, 0.321, East
J52	WINTON VALERO	23990 HESPERIAN BOUL	LUST	Higher	1694, 0.321, East
J53	EXXON TEXACO	23990 HESPERIAN	LUST, HIST CORTESE	Higher	1694, 0.321, East
54	W & W TRANSPORT INC	1680 W WINTON AVE	LUST, SWEEPS UST, CA FID UST, HAZNET	Lower	1719, 0.326, WSW
K55	ROBERT MOORE PROPERT	18971943 NATIONAL AV	LUST, HIST UST, HIST CORTESE	Lower	1760, 0.333, SW
J56	FARRER PROPERTY	994 WINTON AVE W	LUST, HIST CORTESE	Higher	1793, 0.340, ESE
57	REDCO	1975 NATIONAL AVE	RCRA-SQG, SWEEPS UST, FINDS, ECHO, HIST CORTESE	Lower	1918, 0.363, SW
K58	VARN PRODUCTS CO. IN	1942 NATIONAL AVE	LUST, SWEEPS UST, CA FID UST, EMI, HIST CORTESE	Lower	1919, 0.363, SW
L59	SPECIALTY SUPPLY COM	1770 WINTON AVE W	LUST	Lower	1954, 0.370, WSW
L60	SPECIALTY SUPPLY COM	1770 WINTON	HIST UST, HIST CORTESE	Lower	1954, 0.370, WSW
M61	HAYWARD JET CENTER	21889 SKYWEST DR	LUST	Lower	1961, 0.371, North
M62	FORMER HAYWARD JET C	21889 SKYWEST DR	LUST, HIST UST	Lower	1961, 0.371, North
63	TRIDENT TRUCK LINE I	23724 SAKLAN RD	RCRA-SQG, ENVIROSTOR, LUST, Alameda County CS,...	Lower	2004, 0.380, South
64	MR-ONE AUTO BODY	23520 CLAWITER ROAD	LUST, EMI, HIST CORTESE	Lower	2027, 0.384, SSW
65	HOME DEPOT	21787 HESPERIAN BLVD	LUST, EMI	Higher	2071, 0.392, NNE
N66	WESTERN DRUMS, INC.	21301 CLOUD WAY	ENVIROSTOR	Lower	2135, 0.404, West
N67	CONTAINER MANAGEMENT	21301 CLOUD WAY	ENVIROSTOR, AST, EMI, NPDES, WDS	Lower	2135, 0.404, West
N68	CONTAINER MANAGEMENT	21301 CLOUD WAY	SEMS-ARCHIVE, RCRA-LQG, ICIS, US AIRS, FINDS,...	Lower	2135, 0.404, West
O69	VENTURA PROPERTIES (23836-23830 SAKLAN R	Alameda County CS	Lower	2264, 0.429, South
O70	VENTURA PROPERTIES	23836-23830 SAKLAN R	SLIC	Lower	2264, 0.429, South
71	SOUTHLAND CHEVRON	24350 HESPERIAN BLVD	LUST, SWEEPS UST, HIST UST, CA FID UST, HIST...	Higher	2274, 0.431, ESE
P72	FRY #39;S METALS	1845 W WINTON AVE	SWRCY	Lower	2278, 0.431, West
P73	WALKER'S CONCRETE	1844 WINTON AVE W	LUST, HIST CORTESE	Lower	2310, 0.438, WSW
74	UNKNOWN	23726 CLAWITER	HIST CORTESE	Lower	2405, 0.455, SSW
Q75	FORMER BAR S FACILIT	20725 CORSAIR BLVD	LUST, SWEEPS UST, CA FID UST, HIST CORTESE	Lower	2474, 0.469, WNW
Q76	BAR S FACILITY	20725 CORSAIR BLVD	LUST	Lower	2474, 0.469, WNW
77	GORDON EVERETT PROPE	1693 SABRE ST	LUST	Lower	2489, 0.471, WNW
R78	HAYWARD AIR TERMINAL	20511 SKYWEST DR	LUST, SLIC, HIST UST	Lower	2548, 0.483, North

MAPPED SITES SUMMARY

Target Property Address:
 1401 WEST WINTON AVENUE
 HAYWARD, CA 94545

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
R79	HAYWARD AIR/STEVE PI	20511 SKYWEST DR	LUST, SLIC, SWEEPS UST, HIST UST, CA FID UST, HIST...	Lower	2548, 0.483, North
80	AMERICAN AIRCRAFT SA	21015 SKYWEST DR	LUST, HIST UST	Lower	2595, 0.491, North
81	DOUBLE O2SALVAGE INC	2034 AMERICAN AVE	ENVIROSTOR, LUST, SWEEPS UST, CA FID UST, HIST...	Lower	2600, 0.492, SSW
S82	HAYWARD ARMY AIRFIEL	20301 SKYWEST DR	HIST Cal-Sites	Lower	3041, 0.576, NNW
S83	AIR TRAFFIC CONTROL	20301 SKYWEST DR	RESPONSE, ENVIROSTOR, LUST, SWEEPS UST, CA FID...	Lower	3041, 0.576, NNW
84	BAXALTA US INC	1978 W WINTON AVE	RCRA-LQG, ENVIROSTOR, EMI, NPDES	Lower	3235, 0.613, West
85	HAYWARD ARMY AIRFIEL		FUDS	Lower	3273, 0.620, NW
86	ELECTRO PLATING SPEC	2436 AMERICAN AVENUE	RCRA-LQG, ENVIROSTOR, FINDS, ECHO, WDS	Lower	3407, 0.645, SW
87	PENTAGON TECHNOLOGIE	21031 ALEXANDER COUR	RCRA-LQG, ENVIROSTOR, FINDS, ECHO, EMI	Lower	3543, 0.671, WSW
88	CONTINENTAL WHITE CA	24493 CLAWITER RD	ENVIROSTOR, LUST, SLIC, SWEEPS UST, HIST UST, CA...	Lower	4267, 0.808, SSW
89	A C TRANSIT - HAYWAR	20234 MACK STREET	ENVIROSTOR, SLIC	Lower	4384, 0.830, West
90	XEROX CORPORATION	24600 INDUSTRIAL BLV	RCRA-SQG, ENVIROSTOR, FINDS, ECHO, HAZNET	Lower	4710, 0.892, South

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
HAYWARD FIRE STATION 1401 WINTON AVE W HAYWARD, CA	RGA LUST	N/A
HAYWARD FIRE STATION 1401 WINTON AVE W HAYWARD, CA	RGA LUST	N/A
FIRE STATION #6 1401 W WINTON AVE HAYWARD, CA 94541	Alameda County CS Record Id: RO0002549 HIST UST Facility Id: 00000009316	N/A
CITY OF HAYWARD FIRE 1401 W WINTON AVE HAYWARD, CA 94545	FINDS Registry ID:: 110070061439	N/A
COH - FIRE STATION # 1401 WINTON AVE WEST HAYWARD, CA 94544	FINDS Registry ID:: 110066247966	N/A
HAYWARD FD HOUSEHOLD 1401 W WINTON AVE HAYWARD, CA 94541	LUST Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-0634 Facility Status: Leak being confirmed Global Id: T0600100584 RCRA NonGen / NLR EPA ID:: CAD981974090 FINDS Registry ID:: 110002761351 ECHO HIST CORTESE Reg Id: 01-0634	CAD981974090
COH - FIRE STATION # 1401 WINTON AVE WEST HAYWARD, CA 94544	UST Database: UST, Date of Government Version: 09/11/2017 Facility Id: 01-003-050201	N/A

EXECUTIVE SUMMARY

FIRE STATION #6 1401 W WINTON AVE HAYWARD, CA 94541	SWEEPS UST Status: A Tank Status: A Comp Number: 9316 HIST UST CA FID UST Facility Id: 01000759 Status: A EMI Facility Id: 21213	N/A
FIRE STATION #6 1401 WINTON AVE N HAYWARD, CA	RGA LUST	N/A
CITY OF HAYWARD FIRE 1401 WEST WINTON AVE HAYWARD, CA 94544	HAZNET GEPAID: CAL000089378	N/A
CITY OF HAYWARD FIRE 1401 WINTON AVE W HAYWARD, CA 94545	FINDS Registry ID:: 110066783813	N/A
CITY OF HAYWARD FIRE 1401 WINTON AVE W HAYWARD, CA	RGA LUST	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
 Proposed NPL..... Proposed National Priority List Sites
 NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database

EXECUTIVE SUMMARY

HAULERS.....	Registered Waste Tire Haulers Listing
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
IHS OPEN DUMPS.....	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL.....	Delisted National Clandestine Laboratory Register
SCH.....	School Property Evaluation Program
CDL.....	Clandestine Drug Labs
Toxic Pits.....	Toxic Pits Cleanup Act Sites
US CDL.....	National Clandestine Laboratory Register

Local Land Records

LIENS.....	Environmental Liens Listing
LIENS 2.....	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program

EXECUTIVE SUMMARY

UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
ICE.....	ICE
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
UIC.....	UIC Listing
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 07/11/2017 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HAYWARD AIR NATIONAL</i>	<i>HAYWARD AIR NATIONAL</i>	<i>WSW 1/8 - 1/4 (0.163 mi.)</i>	<i>G33</i>	<i>76</i>

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates 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 the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/11/2017 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>CONTAINER MANAGEMENT</i>	<i>21301 CLOUD WAY</i>	<i>W 1/4 - 1/2 (0.404 mi.)</i>	<i>N68</i>	<i>156</i>

Federal RCRA generators list

RCRA-SQG: RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/13/2017 has revealed that there are 3

EXECUTIVE SUMMARY

RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
URBANITE	1500 W WINTON AVE	WSW 1/8 - 1/4 (0.138 mi.)	G25	44
OLIVER DE SILVA INC	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F29	50
HAYWARD AIR NATIONAL	HAYWARD AIR NATIONAL	WSW 1/8 - 1/4 (0.163 mi.)	G33	76

RCRA-CESQG: RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/13/2017 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LAVISTA, SAKLAN	22958 SAKLAN ROAD	SSW 0 - 1/8 (0.093 mi.)	E21	27

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there are 2 RESPONSE sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USANG CA HAYWARD BAS Database: RESPONSE, Date of Government Version: 07/31/2017 AWP Facility Id: 01970009 Status: Certified Facility Id: 1970009	1525 WEST WINTON AVE	WSW 1/8 - 1/4 (0.163 mi.)	G32	64
AIR TRAFFIC CONTROL Database: RESPONSE, Date of Government Version: 07/31/2017 Status: Active Facility Id: 1970008	20301 SKYWEST DR	NNW 1/2 - 1 (0.576 mi.)	S83	212

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to,

EXECUTIVE SUMMARY

identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/31/2017 has revealed that there are 14 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA VISTA LLC Facility Id: 70000173 Status: Certified O&M - Land Use Restrictions Only	22958 SAKLAN ROAD	SSW 0 - 1/8 (0.093 mi.)	E22	29
USANG CA HAYWARD BAS Facility Id: 1970009 Status: Certified	1525 WEST WINTON AVE	WSW 1/8 - 1/4 (0.163 mi.)	G32	64
EDEN 3 PROPOSED DEVE Facility Id: 60002274 Status: No Further Action	23645, 23653 EDEN AV	SSE 1/8 - 1/4 (0.216 mi.)	39	83
TRIDENT TRUCK LINE I Facility Id: 1470002 Status: Refer: RWQCB	23724 SAKLAN RD	S 1/4 - 1/2 (0.380 mi.)	63	129
WESTERN DRUMS, INC. Facility Id: 1340114 Status: No Action Required	21301 CLOUD WAY	W 1/4 - 1/2 (0.404 mi.)	N66	143
CONTAINER MANAGEMENT Facility Id: 71002621 Status: Inactive - Needs Evaluation	21301 CLOUD WAY	W 1/4 - 1/2 (0.404 mi.)	N67	144
DOUBLE O2SALVAGE INC Facility Id: 1200006 Status: Refer: RWQCB	2034 AMERICAN AVE	SSW 1/4 - 1/2 (0.492 mi.)	81	203
AIR TRAFFIC CONTROL Facility Id: 1970008 Status: Active	20301 SKYWEST DR	NNW 1/2 - 1 (0.576 mi.)	S83	212
BAXALTA US INC Facility Id: 71002761 Status: No Further Action	1978 W WINTON AVE	W 1/2 - 1 (0.613 mi.)	84	219
ELECTRO PLATING SPEC Facility Id: 71003192 Status: Inactive - Needs Evaluation	2436 AMERICAN AVENUE	SW 1/2 - 1 (0.645 mi.)	86	238
PENTAGON TECHNOLOGIE Facility Id: 71003559 Status: No Further Action	21031 ALEXANDER COUR	WSW 1/2 - 1 (0.671 mi.)	87	253
CONTINENTAL WHITE CA Facility Id: 1280080 Status: Refer: RWQCB	24493 CLAWITER RD	SSW 1/2 - 1 (0.808 mi.)	88	268
A C TRANSIT - HAYWAR Facility Id: 1410117 Status: Refer: RWQCB	20234 MACK STREET	W 1/2 - 1 (0.830 mi.)	89	277
XEROX CORPORATION Facility Id: 1270023	24600 INDUSTRIAL BLV	S 1/2 - 1 (0.892 mi.)	90	279

EXECUTIVE SUMMARY

Status: No Further Action

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 33 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUPER OIL CHANGE & T Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-2085 Facility Status: Case Closed Global Id: T0600101916 date9: 8/1/2002	1294 WINTON AVE W	SSE 0 - 1/8 (0.024 mi.)	B13	18
WINTON VALERO Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Open - Site Assessment Facility Id: 01-1457 Facility Status: Case Closed Global Id: T10000007782 date9: 1/9/2002	23990 HESPERIAN BOUL	E 1/4 - 1/2 (0.321 mi.)	J52	102
EXXON TEXACO Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Global Id: T0600101345	23990 HESPERIAN	E 1/4 - 1/2 (0.321 mi.)	J53	106
FARRER PROPERTY Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-0613 Facility Status: Case Closed Global Id: T0600100565 date9: 11/8/2000	994 WINTON AVE W	ESE 1/4 - 1/2 (0.340 mi.)	J56	113
HOME DEPOT Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-2522 Facility Status: Case Closed Global Id: T0600191847 date9: 4/13/2001	21787 HESPERIAN BLVD	NNE 1/4 - 1/2 (0.392 mi.)	65	137
SOUTHLAND CHEVRON Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017	24350 HESPERIAN BLVD	ESE 1/4 - 1/2 (0.431 mi.)	71	179

EXECUTIVE SUMMARY

Status: Completed - Case Closed
 Facility Id: 01-0347
 Facility Status: Remediation Plan
 Global Id: T0600100319

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHEVRON Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-0324 Facility Status: Case Closed Global Id: T0600100297 date9: 5/10/1995	1490 WINTON AVE W	SW 0 - 1/8 (0.063 mi.)	C17	22
CLARKS HOME & GARDEN Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-0424 Facility Status: Preliminary site assessment underway Global Id: T0600100385	23040 CLAWITER	SSW 1/8 - 1/4 (0.142 mi.)	F27	48
OLIVER DE SILVA INC Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-1093 Facility Status: Case Closed Global Id: T0600101007 date9: 5/14/2001	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F29	50
ALHAMBRA HAYWARD Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Id: 01-0057 Facility Status: Case Closed date9: 5/29/1996	22990 CLAWITER RD	SSW 1/8 - 1/4 (0.183 mi.)	H35	79
ALHAMBRA NATIONAL WA Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Global Id: T0600100051	22990 CLAWITER RD	SSW 1/8 - 1/4 (0.183 mi.)	H38	81
OAKLAND FENCE COMPAN Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 09/11/2017 Status: Completed - Case Closed Facility Id: 01-1072 Facility Status: Case Closed Global Id: T0600100989 date9: 7/9/2004	1580 WINTON AVE W	WSW 1/8 - 1/4 (0.241 mi.)	41	88
TRIDENT TRUCK LINE Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Id: 01-0650 Facility Status: Case Closed date9: 7/8/1997	23250 CLAWITER RD	SSW 1/4 - 1/2 (0.283 mi.)	42	90
CUHNA PROPERTY Database: LUST, Date of Government Version: 09/11/2017	22409 THUNDERBIRD	SW 1/4 - 1/2 (0.288 mi.)	I43	91

EXECUTIVE SUMMARY

Status: Completed - Case Closed				
Global Id: T0600100759				
CUNHA PROPERTY	22409 THUNDERBIRD PL	SW 1/4 - 1/2 (0.288 mi.)	I44	92
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Facility Id: 01-0823				
Facility Status: Case Closed				
date9: 5/11/1998				
BERKELEY LAND COMPAN	23555 SAKLAN RD	S 1/4 - 1/2 (0.298 mi.)	45	93
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-0888				
Facility Status: Case Closed				
Global Id: T0600100820				
date9: 9/23/1996				
GEO-CON INC.	1764 NATIONAL AVE	SSW 1/4 - 1/2 (0.299 mi.)	46	94
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-1888				
Facility Status: Leak being confirmed				
Global Id: T0600101751				
W & W TRANSPORT INC	1680 W WINTON AVE	WSW 1/4 - 1/2 (0.326 mi.)	54	108
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-2516				
Facility Status: Case Closed				
Global Id: T0600192780				
date9: 11/16/2000				
ROBERT MOORE PROPERT	18971943 NATIONAL AV	SW 1/4 - 1/2 (0.333 mi.)	K55	111
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-1102				
Facility Status: Case Closed				
Global Id: T0600101015				
date9: 5/6/1999				
VARN PRODUCTS CO. IN	1942 NATIONAL AVE	SW 1/4 - 1/2 (0.363 mi.)	K58	117
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-1632				
Facility Status: Preliminary site assessment underway				
Global Id: T0600101507				
SPECIALTY SUPPLY COM	1770 WINTON AVE W	WSW 1/4 - 1/2 (0.370 mi.)	L59	124
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Facility Id: 01-1897				
Facility Status: Leak being confirmed				
HAYWARD JET CENTER	21889 SKYWEST DR	N 1/4 - 1/2 (0.371 mi.)	M61	126
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Facility Id: 01-2536				

EXECUTIVE SUMMARY

Facility Status: Preliminary site assessment underway

FORMER HAYWARD JET C	21889 SKYWEST DR	N 1/4 - 1/2 (0.371 mi.)	M62	126
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Global Id: T060014747				
TRIDENT TRUCK LINE I	23724 SAKLAN RD	S 1/4 - 1/2 (0.380 mi.)	63	129
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Global Id: T0600100600				
MR-ONE AUTO BODY	23520 CLAWITER ROAD	SSW 1/4 - 1/2 (0.384 mi.)	64	134
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-1143				
Facility Status: Case Closed				
Global Id: T0600101053				
date9: 7/2/1997				
WALKER'S CONCRETE	1844 WINTON AVE W	WSW 1/4 - 1/2 (0.438 mi.)	P73	186
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Facility Id: 01-1644				
Facility Status: Preliminary site assessment underway				
Global Id: T0600101519				
FORMER BAR S FACILIT	20725 CORSAIR BLVD	WNW 1/4 - 1/2 (0.469 mi.)	Q75	188
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Global Id: T0600100604				
BAR S FACILITY	20725 CORSAIR BLVD	WNW 1/4 - 1/2 (0.469 mi.)	Q76	191
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Facility Id: 01-0654				
Facility Status: Case Closed				
date9: 4/9/1996				
GORDON EVERETT PROPE	1693 SABRE ST	WNW 1/4 - 1/2 (0.471 mi.)	77	191
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Global Id: T0600173326				
HAYWARD AIR TERMINAL	20511 SKYWEST DR	N 1/4 - 1/2 (0.483 mi.)	R78	194
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Global Id: T0600101930				
HAYWARD AIR/STEVE PI	20511 SKYWEST DR	N 1/4 - 1/2 (0.483 mi.)	R79	197
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Facility Id: 01-2101				
Facility Status: Case Closed				
date9: 11/30/1998				
AMERICAN AIRCRAFT SA	21015 SKYWEST DR	N 1/4 - 1/2 (0.491 mi.)	80	200
Database: LUST, Date of Government Version: 09/11/2017				
Status: Completed - Case Closed				
Global Id: T0600165641				
DOUBLE O2SALVAGE INC	2034 AMERICAN AVE	SSW 1/4 - 1/2 (0.492 mi.)	81	203
Database: LUST REG 2, Date of Government Version: 09/30/2004				
Database: LUST, Date of Government Version: 09/11/2017				

EXECUTIVE SUMMARY

Status: Completed - Case Closed
 Facility Id: 01-1533
 Facility Status: Case Closed
 Global Id: T0600101416
 date9: 5/29/1996

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 6 SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AIRPORT PLAZA Database: SLIC, Date of Government Version: 09/11/2017 Facility Status: Completed - Case Closed Global Id: SL20273891	23958 HESPERIAN BOUL	E 1/4 - 1/2 (0.310 mi.)	J48	97
AIRPORT PLAZA Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 01S0493	23958 HESPERIAN BOUL	E 1/4 - 1/2 (0.310 mi.)	J49	98
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CALIFORNIA AIR NATIO Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 01-0261	1525 WINTON AVE W	WSW 1/8 - 1/4 (0.163 mi.)	G34	79
VENTURA PROPERTIES Database: SLIC, Date of Government Version: 09/11/2017 Facility Status: Completed - Case Closed Global Id: T10000005081	23836-23830 SAKLAN R	S 1/4 - 1/2 (0.429 mi.)	O70	178
HAYWARD AIR TERMINAL Database: SLIC, Date of Government Version: 09/11/2017 Facility Status: Completed - Case Closed Global Id: T0600191513	20511 SKYWEST DR	N 1/4 - 1/2 (0.483 mi.)	R78	194
HAYWARD AIR/STEVE PI Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 01S0197	20511 SKYWEST DR	N 1/4 - 1/2 (0.483 mi.)	R79	197

Alameda County CS: A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

A review of the Alameda County CS list, as provided by EDR, and dated 09/22/2017 has revealed that there are 6 Alameda County CS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AIRPORT PLAZA PROPER	23956-58 HESPERIAN B	E 1/4 - 1/2 (0.310 mi.)	J50	99

EXECUTIVE SUMMARY

Record Id: RO0002801

EXXON R/S 7-0218	23990 HESPERIAN BLVD	E 1/4 - 1/2 (0.321 mi.)	J51	99
Record Id: RO0003188				
Status: Pollution Characterization				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CLARKS HOME & GARDEN	23040 CLAWITER	SSW 1/8 - 1/4 (0.142 mi.)	F27	48
Record Id: RO0000045				
Status: Case Closed				
BERKELEY LAND COMPAN	23555 SAKLAN RD	S 1/4 - 1/2 (0.298 mi.)	45	93
Record Id: RO0001072				
Status: Case Closed				
TRIDENT TRUCK LINE I	23724 SAKLAN RD	S 1/4 - 1/2 (0.380 mi.)	63	129
Record Id: RO0002821				
Status: Case Closed				
VENTURA PROPERTIES (23836-23830 SAKLAN R	S 1/4 - 1/2 (0.429 mi.)	O69	177
Record Id: RO0002795				
Status: Leak Confirmation				
Status: Pollution Characterization				

State and tribal registered storage tank lists

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DE SILVA GATES CONST	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F28	49
DESILVA GATE CONSTRU	22991 CLAWITER ROAD	SW 1/8 - 1/4 (0.161 mi.)	F30	61

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 07/31/2017 has revealed that there are 2 VCP sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA VISTA LLC	22958 SAKLAN ROAD	SSW 0 - 1/8 (0.093 mi.)	E22	29
Status: Certified O&M - Land Use Restrictions Only				
Facility Id: 70000173				
EDEN 3 PROPOSED DEVE	23645, 23653 EDEN AV	SSE 1/8 - 1/4 (0.216 mi.)	39	83
Status: No Further Action				

EXECUTIVE SUMMARY

Facility Id: 60002274

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 09/11/2017 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FRY #39;S METALS Cert Id: RC247810.001	1845 W WINTON AVE	W 1/4 - 1/2 (0.431 mi.)	P72	185

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 2 HIST Cal-Sites sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USANG CA HAYWARD BAS HAYWARD ARMY AIRFIEL	1525 WEST WINTON AVE 20301 SKYWEST DR	WSW 1/8 - 1/4 (0.163 mi.) NNW 1/2 - 1 (0.576 mi.)	G32 S82	64 210

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 8 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAGIC LUBE & TUNE/MI Status: A Tank Status: A Comp Number: 524	1294 W WINTON AVE	SSE 0 - 1/8 (0.024 mi.)	B14	20
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CASCADE CHEVRON	1490 W WINTON AVE	SW 0 - 1/8 (0.063 mi.)	C18	24

EXECUTIVE SUMMARY

Comp Number: 62224				
URBANITE	1500 W WINTON AVE	WSW 1/8 - 1/4 (0.138 mi.)	G25	44
Comp Number: 507				
OLIVER DE SILVA INC	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F29	50
Status: A Tank Status: A Comp Number: 37402				
USANG CA HAYWARD BAS	1525 WEST WINTON AVE	WSW 1/8 - 1/4 (0.163 mi.)	G32	64
Status: A Tank Status: A Comp Number: 7560				
ALHAMBRA NATIONAL WA	22990 CLAWITER RD	SSW 1/8 - 1/4 (0.183 mi.)	H38	81
Comp Number: 29815				
BOB QUATMAN	22390 THUNDERBIRD PL	SW 1/8 - 1/4 (0.227 mi.)	40	86
Comp Number: 19				
OAKLAND FENCE COMPAN	1580 WINTON AVE W	WSW 1/8 - 1/4 (0.241 mi.)	41	88
Comp Number: 509				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 5 HIST UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
92263 Facility Id: 00000062224	1490 W WINTON AVE	SW 0 - 1/8 (0.063 mi.)	C16	21
OLIVER DE SILVA INC Facility Id: 00000037402	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F29	50
USANG CA HAYWARD BAS Facility Id: 00000007560	1525 WEST WINTON AVE	WSW 1/8 - 1/4 (0.163 mi.)	G32	64
ALHAMBRA NATIONAL WA	22990 CLAWATER ROAD	SSW 1/8 - 1/4 (0.183 mi.)	H36	80
ALHAMBRA NATIONAL WA Facility Id: 00000029815	22990 CLAWITER RD	SSW 1/8 - 1/4 (0.183 mi.)	H37	80

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 7 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAGIC LUBE & TUNE/MI Facility Id: 01002853 Status: A	1294 W WINTON AVE	SSE 0 - 1/8 (0.024 mi.)	B14	20
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CASCADE CHEVRON	1490 W WINTON AVE	SW 0 - 1/8 (0.063 mi.)	C18	24

EXECUTIVE SUMMARY

Facility Id: 01000456 Status: I				
ALAMEDA NEWSPAPERS (Facility Id: 01001978 Status: I	1500 WEST WINTON AVE	WSW 1/8 - 1/4 (0.138 mi.)	G24	44
OLIVER DE SILVA INC Facility Id: 01002890 Status: A	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F29	50
USANG CA HAYWARD BAS Facility Id: 01000394 Status: A	1525 WEST WINTON AVE	WSW 1/8 - 1/4 (0.163 mi.)	G32	64
ALHAMBRA NATIONAL WA Facility Id: 01001078 Status: A	22990 CLAWITER RD	SSW 1/8 - 1/4 (0.183 mi.)	H38	81
BOB QUATMAN Facility Id: 01002285 Status: I	22390 THUNDERBIRD PL	SW 1/8 - 1/4 (0.227 mi.)	40	86

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 09/05/2017 has revealed that there are 2 DEED sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ADOLPH P SCHUMAN MAR Status: COMPLETED - CASE CLOSED Envirostor ID: SL20273891	23958 HESPERIAN BLVD	E 1/4 - 1/2 (0.308 mi.)	J47	97
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA VISTA LLC Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY Envirostor ID: 70000173	22958 SAKLAN ROAD	SSW 0 - 1/8 (0.093 mi.)	E22	29

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2017 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DOUBLE D TRANSPORTATI	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F31	62

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HAYWARD ARMY AIRFIEL		NW 1/2 - 1 (0.620 mi.)	85	237

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 08/02/2017 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JACK'S CLEANER'S & S EPA Id: CAL000267753	1214 WEST WINTON	ESE 0 - 1/8 (0.071 mi.)	D20	27

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 25 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUPER OIL CHANGE & T Reg Id: 01-2085	1294 WINTON AVE W	SSE 0 - 1/8 (0.024 mi.)	B13	18
EXXON TEXACO Reg Id: 01-1457	23990 HESPERIAN	E 1/4 - 1/2 (0.321 mi.)	J53	106
FARRER PROPERTY Reg Id: 01-0613	994 WINTON AVE W	ESE 1/4 - 1/2 (0.340 mi.)	J56	113
SOUTHLAND CHEVRON Reg Id: 01-0347	24350 HESPERIAN BLVD	ESE 1/4 - 1/2 (0.431 mi.)	71	179

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHEVRON Reg Id: 01-0324	1490 WINTON AVE W	SW 0 - 1/8 (0.063 mi.)	C17	22
ALHAMBRA HAYWARD Reg Id: 01-0456	22950 CLAWITER	SW 0 - 1/8 (0.114 mi.)	F23	44

EXECUTIVE SUMMARY

Reg Id: 01-0057				
CLARKS HOME & GARDEN	23040 CLAWITER	SSW 1/8 - 1/4 (0.142 mi.)	F27	48
Reg Id: 01-0424				
OLIVER DE SILVA INC	22991 CLAWITER RD	SW 1/8 - 1/4 (0.161 mi.)	F29	50
Reg Id: 01-1093				
CALIFORNIA AIR NATIO	1525 WINTON AVE W	WSW 1/8 - 1/4 (0.163 mi.)	G34	79
Reg Id: 01-0261				
Reg Id: 01970009				
OAKLAND FENCE COMPAN	1580 WINTON AVE W	WSW 1/8 - 1/4 (0.241 mi.)	41	88
Reg Id: 01-1072				
TRIDENT TRUCK LINE	23250 CLAWITER RD	SSW 1/4 - 1/2 (0.283 mi.)	42	90
Reg Id: 01-0650				
CUHNA PROPERTY	22409 THUNDERBIRD	SW 1/4 - 1/2 (0.288 mi.)	I43	91
Reg Id: 01-0823				
BERKELEY LAND COMPAN	23555 SAKLAN RD	S 1/4 - 1/2 (0.298 mi.)	45	93
Reg Id: 01-0888				
GEO-CON INC.	1764 NATIONAL AVE	SSW 1/4 - 1/2 (0.299 mi.)	46	94
Reg Id: 01-1888				
ROBERT MOORE PROPERT	18971943 NATIONAL AV	SW 1/4 - 1/2 (0.333 mi.)	K55	111
Reg Id: 01-1102				
REDCO	1975 NATIONAL AVE	SW 1/4 - 1/2 (0.363 mi.)	57	115
Reg Id: 01-1226				
VARN PRODUCTS CO. IN	1942 NATIONAL AVE	SW 1/4 - 1/2 (0.363 mi.)	K58	117
Reg Id: 01-1632				
SPECIALTY SUPPLY COM	1770 WINTON	WSW 1/4 - 1/2 (0.370 mi.)	L60	125
Reg Id: 01-1897				
TRIDENT TRUCK LINE I	23724 SAKLAN RD	S 1/4 - 1/2 (0.380 mi.)	63	129
Reg Id: 01-1550				
MR-ONE AUTO BODY	23520 CLAWITER ROAD	SSW 1/4 - 1/2 (0.384 mi.)	64	134
Reg Id: 01-1143				
WALKER'S CONCRETE	1844 WINTON AVE W	WSW 1/4 - 1/2 (0.438 mi.)	P73	186
Reg Id: 01-1644				
UNKNOWN	23726 CLAWITER	SSW 1/4 - 1/2 (0.455 mi.)	74	188
Reg Id: 2577				
FORMER BAR S FACILIT	20725 CORSAIR BLVD	WNW 1/4 - 1/2 (0.469 mi.)	Q75	188
Reg Id: 01-0654				
HAYWARD AIR/STEVE PI	20511 SKYWEST DR	N 1/4 - 1/2 (0.483 mi.)	R79	197
Reg Id: 01-2101				
DOUBLE O2SALVAGE INC	2034 AMERICAN AVE	SSW 1/4 - 1/2 (0.492 mi.)	81	203
Reg Id: 01-1533				
Reg Id: 01200096				

EXECUTIVE SUMMARY

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 06/16/2017 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CLERKS BUILDING MATE	23040 CLAWITER ROAD	SSW 1/8 - 1/4 (0.142 mi.)	F26	47

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CASCADE CHEVRON	1490 W WINTON AVE	SW 0 - 1/8 (0.063 mi.)	C15	21

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JACKS CLRS & SHIRT L	1214 W WINTON AVE	ESE 0 - 1/8 (0.071 mi.)	D19	26

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name

CITY OF HAYWARD OLIVER PROPERTY
BAY CITIES RUBBISH DSPL CO

Database(s)

Alameda County CS
SEMS-ARCHIVE

OVERVIEW MAP - 5110454.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

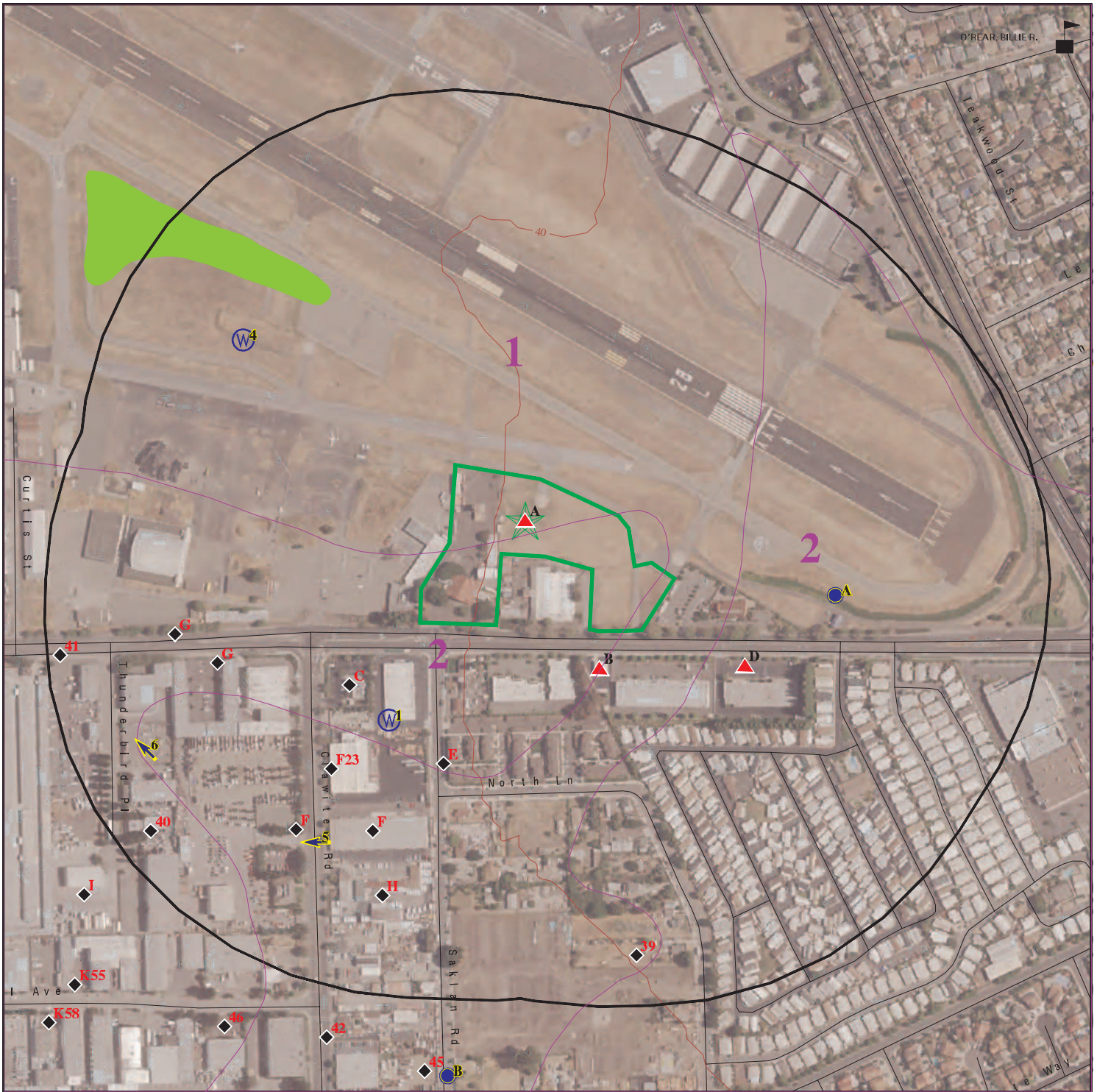
Areas of Concern








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.






SITE NAME: Hayward Fire Station #6
 ADDRESS: 1401 West Winton Avenue
 Hayward CA 94545
 LAT/LONG: 37.654304 / 122.117651

CLIENT: Trans Tech Consultants
 CONTACT: Bill Coset
 INQUIRY #: 5110454.2s
 DATE: November 17, 2017 1:10 pm

DETAIL MAP - 5110454.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Hayward Fire Station #6
 ADDRESS: 1401 West Winton Avenue
 Hayward CA 94545
 LAT/LONG: 37.654304 / 122.117651

CLIENT: Trans Tech Consultants
 CONTACT: Bill Coset
 INQUIRY #: 5110454.2s
 DATE: November 17, 2017 1:13 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	1	0	NR	NR	1
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	3	NR	NR	NR	3
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL RESPONSE</i>								
RESPONSE	1.000		0	1	0	1	NR	2
<i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i>								
ENVIROSTOR	1.000		1	2	4	7	NR	14
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500	1	2	5	26	NR	NR	34

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	1	5	NR	NR	6
Alameda County CS	0.500	1	0	1	5	NR	NR	7
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	0	0	NR	NR	NR	1
AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		1	1	0	NR	NR	2
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	1	0	1	NR	2
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	2	6	NR	NR	NR	9
HIST UST	0.250	2	1	4	NR	NR	NR	7
CA FID UST	0.250	1	2	5	NR	NR	NR	8
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		1	0	1	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	1	NR	NR	NR	2
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	4	0	NR	NR	NR	NR	4
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		1	0	NR	NR	NR	1
EMI	0.001	1	0	NR	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500	1	3	4	18	NR	NR	26
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	1	0	0	NR	1
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	4	0	NR	NR	NR	NR	4

- Totals -- 20 17 39 61 10 0 147

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A1 **HAYWARD FIRE STATION #6**
Target **1401 WINTON AVE W**
Property **HAYWARD, CA**

RGA LUST **S114631341**
 N/A

Site 1 of 12 in cluster A

Actual:
41 ft.

RGA LUST:

2008	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2007	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2006	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2005	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2003	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2002	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2001	HAYWARD FIRE STATION #6	1401 WINTON AVE W
2000	HAYWARD FIRE STATION #6	1401 WINTON AVE W
1997	HAYWARD FIRE STATION #6	1401 WINTON AVE W
1996	HAYWARD FIRE STATION #6	1401 WINTON AVE W
1995	HAYWARD FIRE STATION #6	1401 WINTON AVE W

A2 **HAYWARD FIRE STATION 6**
Target **1401 WINTON AVE W**
Property **HAYWARD, CA**

RGA LUST **S114631343**
 N/A

Site 2 of 12 in cluster A

Actual:
41 ft.

RGA LUST:

1998	HAYWARD FIRE STATION 6	1401 WINTON AVE W
------	------------------------	-------------------

A3 **FIRE STATION #6**
Target **1401 W WINTON AVE**
Property **HAYWARD, CA 94541**

Alameda County CS **U001596988**
HIST UST **N/A**

Site 3 of 12 in cluster A

Actual:
41 ft.

Alameda County CS:

Status:	11
Record Id:	RO0002549
PE:	5602
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000009316
Facility Type:	Other
Other Type:	FIRE STATION
Contact Name:	ASST. CHIEF DON DREISBACH
Telephone:	---
Owner Name:	CITY OF HAYWARD
Owner Address:	22300 FOOTHILL BLVD.
Owner City,St,Zip:	HAYWARD, CA 94541
Total Tanks:	0003
Tank Num:	001
Container Num:	FS6-1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FIRE STATION #6 (Continued)

U001596988

Year Installed: 1976
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: F56-2
Year Installed: 1976
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: FS6-3
Year Installed: 1976
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

**A4
Target
Property**

**CITY OF HAYWARD FIRE DEPARTMENT #6
1401 W WINTON AVE
HAYWARD, CA 94545**

**FINDS 1023650919
N/A**

Site 4 of 12 in cluster A

**Actual:
41 ft.**

FINDS:

Registry ID: 110070061439

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**A5
Target
Property**

**COH - FIRE STATION #6
1401 WINTON AVE WEST
HAYWARD, CA 94544**

**FINDS 1023330225
N/A**

Site 5 of 12 in cluster A

**Actual:
41 ft.**

FINDS:

Registry ID: 110066247966

Environmental Interest/Information System
STATE MASTER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COH - FIRE STATION #6 (Continued)

1023330225

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A6
Target
Property

HAYWARD FD HOUSEHOLD HAZ WASTE TURN IN
1401 W WINTON AVE
HAYWARD, CA 94541

LUST 1000435191
RCRA NonGen / NLR CAD981974090
FINDS
ECHO
HIST CORTESE

Site 6 of 12 in cluster A

Actual:
41 ft.

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100584
Global Id: T0600100584
Latitude: 37.6532282
Longitude: -122.1187341
Status: Completed - Case Closed
Status Date: 07/16/2009
Case Worker: DMG
RB Case Number: 01-0634
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-0634
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Not reported

LUST:

Global Id: T0600100584
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

LUST:

Global Id: T0600100584
Action Type: Other
Date: 03/22/1999
Action: Leak Discovery

Global Id: T0600100584
Action Type: Other
Date: 03/22/1999
Action: Leak Stopped

Global Id: T0600100584
Action Type: ENFORCEMENT
Date: 05/28/2009
Action: Referral to Regional Board

Global Id: T0600100584
Action Type: ENFORCEMENT
Date: 07/16/2009
Action: Closure/No Further Action Letter

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD FD HOUSEHOLD HAZ WASTE TURN IN (Continued)

1000435191

Global Id: T0600100584
Action Type: ENFORCEMENT
Date: 07/16/2009
Action: Closure/No Further Action Letter

Global Id: T0600100584
Action Type: Other
Date: 08/25/1999
Action: Leak Reported

LUST:

Global Id: T0600100584
Status: Completed - Case Closed
Status Date: 07/16/2009

Global Id: T0600100584
Status: Open - Case Begin Date
Status Date: 08/30/1996

Global Id: T0600100584
Status: Open - Site Assessment
Status Date: 08/30/1996

LUST REG 2:

Region: 2
Facility Id: 01-0634
Facility Status: Leak being confirmed
Case Number: 01-0634
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/30/1996
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

RCRA NonGen / NLR:

Date form received by agency: 06/21/1993
Facility name: HAYWARD FD HOUSEHOLD HAZ WASTE TURN IN
Facility address: 1401 W WINTON AVE
HAYWARD, CA 94541
EPA ID: CAD981974090
Mailing address: 22300 FOOTHILL BLVD
HAYWARD, CA 94541
Contact: JAY SWARDENSKI
Contact address: 25151 CLAWITER RD
HAYWARD, CA 94545
Contact country: US
Contact telephone: 510-293-5450
Contact email: Not reported
EPA Region: 09

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD FD HOUSEHOLD HAZ WASTE TURN IN (Continued)

1000435191

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CITY OF FREMONT
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002761351

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HAYWARD FD HOUSEHOLD HAZ WASTE TURN IN (Continued)

1000435191

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000435191
 Registry ID: 110002761351
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002761351>

HIST CORTESE:

Region: CORTESE
 Facility County Code: 1
 Reg By: LTNKA
 Reg Id: 01-0634

**A7
 Target
 Property**

**COH - FIRE STATION #6
 1401 WINTON AVE WEST
 HAYWARD, CA 94544**

**UST U003939326
 N/A**

Site 7 of 12 in cluster A

**Actual:
 41 ft.**

UST:
 Facility ID: 01-003-050201
 Permitting Agency: Hayward City Fire Department
 Latitude: 37.65317
 Longitude: -122.11853

**A8
 Target
 Property**

**FIRE STATION #6
 1401 W WINTON AVE
 HAYWARD, CA 94541**

**SWEEPS UST S101630280
 HIST UST N/A
 CA FID UST
 EMI**

Site 8 of 12 in cluster A

**Actual:
 41 ft.**

SWEEPS UST:
 Status: Active
 Comp Number: 9316
 Number: 4
 Board Of Equalization: 44-000809
 Referral Date: 07-08-93
 Action Date: 03-24-94
 Created Date: 02-29-88
 Owner Tank Id: FS6-1
 SWRCB Tank Id: 01-003-009316-000001
 Tank Status: A
 Capacity: 1000
 Active Date: 08-24-92
 Tank Use: M.V. FUEL
 STG: P
 Content: DIESEL
 Number Of Tanks: 3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FIRE STATION #6 (Continued)

S101630280

Status: Active
Comp Number: 9316
Number: 4
Board Of Equalization: 44-000809
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 02-29-88
Owner Tank Id: FS6-2
SWRCB Tank Id: 01-003-009316-000002
Tank Status: A
Capacity: 1000
Active Date: 08-24-92
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 9316
Number: 4
Board Of Equalization: 44-000809
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 02-29-88
Owner Tank Id: FS6-3
SWRCB Tank Id: 01-003-009316-000003
Tank Status: A
Capacity: 1000
Active Date: 08-24-92
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

HIST UST:

File Number: 00035E75
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035E75.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FIRE STATION #6 (Continued)

S101630280

[Click here for Geo Tracker PDF:](#)

CA FID UST:

Facility ID: 01000759
Regulated By: UTNKA
Regulated ID: 000089378
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5102938616
Mail To: Not reported
Mailing Address: 25151 CLAWITER RD
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94541
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

EMI:

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 21213
Air District Name: BA
SIC Code: 9224
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.02
Reactive Organic Gases Tons/Yr: 0.008
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 21213
Air District Name: BA
SIC Code: 9224
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.019539107
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FIRE STATION #6 (Continued)

S101630280

Year: 2015
 County Code: 1
 Air Basin: SF
 Facility ID: 21213
 Air District Name: BA
 SIC Code: 9224
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0.01953911
 Reactive Organic Gases Tons/Yr: 0.007815644
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers and Smlr Tons/Yr:0

A9
 Target
 Property

FIRE STATION #6
1401 WINTON AVE N
HAYWARD, CA

RGA LUST **S114620232**
N/A

Site 9 of 12 in cluster A

Actual:
41 ft.

RGA LUST:
 1994 FIRE STATION #6 1401 WINTON AVE N
 1993 FIRE STATION #6 1401 WINTON AVE N

A10
 Target
 Property

CITY OF HAYWARD FIRE DEPT ST#6
1401 WEST WINTON AVE
HAYWARD, CA 94544

HAZNET **S113055312**
N/A

Site 10 of 12 in cluster A

Actual:
41 ft.

HAZNET:
 envid: S113055312
 Year: 2015
 GEPAID: CAL000089378
 Contact: YAW OWUSU
 Telephone: 5105834762
 Mailing Name: Not reported
 Mailing Address: 777 B ST
 Mailing City,St,Zip: HAYWARD, CA 945415007
 Gen County: Alameda
 TSD EPA ID: CAD059494310
 TSD County: Santa Clara
 Waste Category: Unspecified solvent mixture
 Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
 (H010-H129) Or (H131-H135)
 Tons: 0.0125
 Cat Decode: Not reported
 Method Decode: Not reported
 Facility County: Alameda

 envid: S113055312
 Year: 2013
 GEPAID: CAL000089378

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF HAYWARD FIRE DEPT ST#6 (Continued)

S113055312

Contact: JODY PASCUAL
Telephone: 5105834763
Mailing Name: Not reported
Mailing Address: 777 B ST
Mailing City,St,Zip: HAYWARD, CA 945415007
Gen County: Alameda
TSD EPA ID: TXD077603371
TSD County: 99
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.03
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

envid: S113055312
Year: 2012
GEPaid: CAL000089378
Contact: JODY PASCUAL
Telephone: 5105834763
Mailing Name: Not reported
Mailing Address: 777 B ST
Mailing City,St,Zip: HAYWARD, CA 945415007
Gen County: Alameda
TSD EPA ID: TXD077603371
TSD County: 99
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.035
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S113055312
Year: 2009
GEPaid: CAL000089378
Contact: JODY PASCUAL
Telephone: 5105834763
Mailing Name: Not reported
Mailing Address: 777 B ST
Mailing City,St,Zip: HAYWARD, CA 945415007
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Other still bottom waste
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.004
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: S113055312
Year: 1999
GEPaid: CAL000089378
Contact: CITY OF HAYWARD
Telephone: 5105834763
Mailing Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF HAYWARD FIRE DEPT ST#6 (Continued)

S113055312

Mailing Address: 777 B ST
Mailing City,St,Zip: HAYWARD, CA 945415007
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: .6880
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

[Click this hyperlink](#) while viewing on your computer to access 5 additional CA_HAZNET: record(s) in the EDR Site Report.

**A11
Target
Property**

**CITY OF HAYWARD FIRE STATION #6
1401 WINTON AVE W
HAYWARD, CA 94545**

**FINDS 1023379872
N/A**

Site 11 of 12 in cluster A

**Actual:
41 ft.**

FINDS:

Registry ID: 110066783813

Environmental Interest/Information System
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**A12
Target
Property**

**CITY OF HAYWARD FIRE STATION #6
1401 WINTON AVE W
HAYWARD, CA**

**RGA LUST S114602796
N/A**

Site 12 of 12 in cluster A

**Actual:
41 ft.**

RGA LUST:

2012	CITY OF HAYWARD FIRE STATION #6	1401 WINTON AVE W
2011	CITY OF HAYWARD FIRE STATION #6	1401 WINTON AVE W
2010	CITY OF HAYWARD FIRE STATION #6	1401 WINTON AVE W
2009	CITY OF HAYWARD FIRE STATION #6	1401 WINTON AVE W

**B13
SSE
< 1/8
0.024 mi.
129 ft.**

**SUPER OIL CHANGE & TUNE UP
1294 WINTON AVE W
HAYWARD, CA 94545**

**LUST S102438248
HIST CORTESE N/A**

Site 1 of 2 in cluster B

**Relative:
Higher**

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site

**Actual:
44 ft.**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101916
Global Id: T0600101916

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUPER OIL CHANGE & TUNE UP (Continued)

S102438248

Latitude: 37.652796
Longitude: -122.116783
Status: Completed - Case Closed
Status Date: 08/01/2002
Case Worker: DMG
RB Case Number: 01-2085
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-2085
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:

Global Id: T0600101916
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101916
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101916
Action Type: Other
Date: 03/16/1995
Action: Leak Discovery

Global Id: T0600101916
Action Type: Other
Date: 03/16/1995
Action: Leak Stopped

Global Id: T0600101916
Action Type: Other
Date: 04/20/1995
Action: Leak Reported

LUST:

Global Id: T0600101916
Status: Completed - Case Closed
Status Date: 08/01/2002

Global Id: T0600101916
Status: Open - Case Begin Date
Status Date: 03/16/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUPER OIL CHANGE & TUNE UP (Continued)

S102438248

Global Id: T0600101916
Status: Open - Remediation
Status Date: 11/20/2000

Global Id: T0600101916
Status: Open - Site Assessment
Status Date: 06/27/1995

Global Id: T0600101916
Status: Open - Verification Monitoring
Status Date: 01/04/2001

LUST REG 2:

Region: 2
Facility Id: 01-2085
Facility Status: Case Closed
Case Number: 01-2085
How Discovered: OM
Leak Cause: UNK
Leak Source: Piping
Date Leak Confirmed: 6/27/1995
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: 11/20/2000
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 1/4/2001

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2085

B14
SSE
< 1/8
0.024 mi.
129 ft.

MAGIC LUBE & TUNE/MIKE AHMED
1294 W WINTON AVE
HAYWARD, CA 94545

SWEEPS UST S101580431
CA FID UST N/A

Site 2 of 2 in cluster B

Relative:
Higher

SWEEPS UST:
Status: Active
Comp Number: 524
Number: 2
Board Of Equalization: Not reported
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 01-21-93
Owner Tank Id: 1
SWRCB Tank Id: 01-003-000524-000001
Tank Status: A
Capacity: 500
Active Date: 01-21-93
Tank Use: OIL
STG: W

Actual:
44 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAGIC LUBE & TUNE/MIKE AHMED (Continued)

S101580431

Content: WASTE OIL
Number Of Tanks: 1

CA FID UST:

Facility ID: 01002853
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5108877555
Mail To: Not reported
Mailing Address: P.O. BOX 65
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

**C15
SW
< 1/8
0.063 mi.
331 ft.**

**CASCADE CHEVRON
1490 W WINTON AVE
HAYWARD, CA**

**EDR Hist Auto 1009014562
N/A**

Site 1 of 4 in cluster C

**Relative:
Lower**

EDR Hist Auto

**Actual:
37 ft.**

Year:	Name:	Type:
1973	CASCADE CHEVRON	Gasoline Service Stations
1974	CASCADE CHEVRON	Gasoline Service Stations
1975	CASCADE CHEVRON	Gasoline Service Stations
1976	CASCADE CHEVRON	GASOLINE STATIONS
1976	CASCADE CHEVRON	Gasoline Service Stations
1977	CASCADE CHEVRON	Gasoline Service Stations
1985	HAAVISTO V J ENTERPRISES INC	Gasoline Service Stations
1986	HAAVISTO V J ENTERPRISES INC	Gasoline Service Stations
1987	HAAVISTO V J ENTERPRISES INC	Gasoline Service Stations
1988	HAAVISTO V J ENTERPRISES INC	Gasoline Service Stations

**C16
SW
< 1/8
0.063 mi.
331 ft.**

**92263
1490 W WINTON AVE
HAYWARD, CA 94544**

**HIST UST U001597031
N/A**

Site 2 of 4 in cluster C

**Relative:
Lower**

HIST UST:

File Number: 00035E28
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035E28.pdf>
Region: STATE
Facility ID: 00000062224
Facility Type: Gas Station
Other Type: Not reported
Contact Name: FREE,ROI R

**Actual:
37 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

92263 (Continued)

U001597031

Telephone: 4157850373
Owner Name: CHEVRON U.S.A. INC.
Owner Address: 575 MARKET
Owner City,St,Zip: SAN FRANCISCO, CA 94105
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1971
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000250
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1971
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000250
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1971
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000250
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1971
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 0000130
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

C17
SW
< 1/8
0.063 mi.
331 ft.

CHEVRON
1490 WINTON AVE W
HAYWARD, CA 94545

Site 3 of 4 in cluster C

LUST S105027747
HIST CORTESE N/A

Relative:
Lower

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100297
Global Id: T0600100297
Latitude: 37.652715
Longitude: -122.119785
Status: Completed - Case Closed

Actual:
37 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON (Continued)

S105027747

Status Date: 05/10/1995
Case Worker: DMG
RB Case Number: 01-0324
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-0324
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600100297
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600100297
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100297
Action Type: ENFORCEMENT
Date: 05/10/1995
Action: Closure/No Further Action Letter

Global Id: T0600100297
Action Type: Other
Date: 08/14/1989
Action: Leak Stopped

Global Id: T0600100297
Action Type: Other
Date: 08/14/1989
Action: Leak Reported

Global Id: T0600100297
Action Type: Other
Date: 08/14/1989
Action: Leak Discovery

LUST:

Global Id: T0600100297
Status: Completed - Case Closed
Status Date: 05/10/1995

Global Id: T0600100297
Status: Open - Case Begin Date

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON (Continued)

S105027747

Status Date: 05/22/1989

Global Id: T0600100297
Status: Open - Site Assessment
Status Date: 05/22/1989

Global Id: T0600100297
Status: Open - Site Assessment
Status Date: 08/22/1989

Global Id: T0600100297
Status: Open - Site Assessment
Status Date: 12/02/1992

LUST REG 2:

Region: 2
Facility Id: 01-0324
Facility Status: Case Closed
Case Number: 01-0324
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/22/1989
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 5/22/1989
Pollution Characterization Began: 12/2/1992
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0324

**C18
SW
< 1/8
0.063 mi.
331 ft.**

**CASCADE CHEVRON
1490 W WINTON AVE
HAYWARD, CA 94544
Site 4 of 4 in cluster C**

**SWEEPS UST S101579992
CA FID UST N/A**

**Relative:
Lower**

SWEEPS UST:
Status: Not reported
Comp Number: 62224
Number: Not reported
Board Of Equalization: 44-000948
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-062224-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported

**Actual:
37 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CASCADE CHEVRON (Continued)

S101579992

Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 62224
Number: Not reported
Board Of Equalization: 44-000948
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-062224-000002
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 62224
Number: Not reported
Board Of Equalization: 44-000948
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-062224-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 62224
Number: Not reported
Board Of Equalization: 44-000948
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-062224-000004
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CASCADE CHEVRON (Continued)

S101579992

CA FID UST:

Facility ID: 01000456
 Regulated By: UTKNI
 Regulated ID: CAL000005
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported
 Mailing Address: P O BOX
 Mailing Address 2: Not reported
 Mailing City,St,Zip: HAYWARD 94544
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Inactive

D19
ESE
< 1/8
0.071 mi.
373 ft.

JACKS CLRS & SHIRT LDRY SVC
1214 W WINTON AVE
HAYWARD, CA 94545
Site 1 of 2 in cluster D

EDR Hist Cleaner 1020011606
N/A

Relative:
Higher

EDR Hist Cleaner

Actual:
47 ft.

Year:	Name:	Type:
1996	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
1997	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
1998	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
1999	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2000	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2001	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2002	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2003	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2004	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2005	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2006	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2007	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2008	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2009	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2010	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2011	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2012	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2013	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs
2014	JACKS CLRS & SHIRT LDRY SVC	Drycleaning Plants, Except Rugs

MAP FINDINGS

Map ID Direction Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
--	------	--	-------------	--------------------------------

D20 ESE < 1/8 0.071 mi. 373 ft.	JACK'S CLEANER'S & SHIRT LAUNDRY 1214 WEST WINTON HAYWARD, CA 94545 Site 2 of 2 in cluster D	DRYCLEANERS	S106245564 N/A
---	---	--------------------	---------------------------------

Relative: Higher	<table border="0" style="width: 100%;"> <tr><td colspan="2">DRYCLEANERS:</td></tr> <tr><td>EPA Id:</td><td>CAL000267753</td></tr> <tr><td>NAICS Code:</td><td>81232</td></tr> <tr><td>NAICS Description:</td><td>Drycleaning and Laundry Services (except Coin-Operated)</td></tr> <tr><td>SIC Code:</td><td>7211</td></tr> <tr><td>SIC Description:</td><td>Power Laundries, Family and Commercial</td></tr> <tr><td>Create Date:</td><td>03/17/2003</td></tr> <tr><td>Facility Active:</td><td>Yes</td></tr> <tr><td>Inactive Date:</td><td>Not reported</td></tr> <tr><td>Facility Addr2:</td><td>Not reported</td></tr> <tr><td>Owner Name:</td><td>JACK HOM</td></tr> <tr><td>Owner Address:</td><td>1214 WEST WINTON</td></tr> <tr><td>Owner Address 2:</td><td>Not reported</td></tr> <tr><td>Owner Telephone:</td><td>5107838022</td></tr> <tr><td>Contact Name:</td><td>JACK M HOM JR</td></tr> <tr><td>Contact Address:</td><td>1214 W. WINTON AVENUE</td></tr> <tr><td>Contact Address 2:</td><td>Not reported</td></tr> <tr><td>Contact Telephone:</td><td>5107838022</td></tr> <tr><td>Mailing Name:</td><td>Not reported</td></tr> <tr><td>Mailing Address 1:</td><td>1214 WEST WINTON</td></tr> <tr><td>Mailing Address 2:</td><td>Not reported</td></tr> <tr><td>Mailing City:</td><td>HAYWARD</td></tr> <tr><td>Mailing State:</td><td>CA</td></tr> <tr><td>Mailing Zip:</td><td>945450000</td></tr> <tr><td>Owner Fax:</td><td>0000000000</td></tr> <tr><td>Region Code:</td><td>2</td></tr> </table>	DRYCLEANERS:		EPA Id:	CAL000267753	NAICS Code:	81232	NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)	SIC Code:	7211	SIC Description:	Power Laundries, Family and Commercial	Create Date:	03/17/2003	Facility Active:	Yes	Inactive Date:	Not reported	Facility Addr2:	Not reported	Owner Name:	JACK HOM	Owner Address:	1214 WEST WINTON	Owner Address 2:	Not reported	Owner Telephone:	5107838022	Contact Name:	JACK M HOM JR	Contact Address:	1214 W. WINTON AVENUE	Contact Address 2:	Not reported	Contact Telephone:	5107838022	Mailing Name:	Not reported	Mailing Address 1:	1214 WEST WINTON	Mailing Address 2:	Not reported	Mailing City:	HAYWARD	Mailing State:	CA	Mailing Zip:	945450000	Owner Fax:	0000000000	Region Code:	2
DRYCLEANERS:																																																					
EPA Id:	CAL000267753																																																				
NAICS Code:	81232																																																				
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)																																																				
SIC Code:	7211																																																				
SIC Description:	Power Laundries, Family and Commercial																																																				
Create Date:	03/17/2003																																																				
Facility Active:	Yes																																																				
Inactive Date:	Not reported																																																				
Facility Addr2:	Not reported																																																				
Owner Name:	JACK HOM																																																				
Owner Address:	1214 WEST WINTON																																																				
Owner Address 2:	Not reported																																																				
Owner Telephone:	5107838022																																																				
Contact Name:	JACK M HOM JR																																																				
Contact Address:	1214 W. WINTON AVENUE																																																				
Contact Address 2:	Not reported																																																				
Contact Telephone:	5107838022																																																				
Mailing Name:	Not reported																																																				
Mailing Address 1:	1214 WEST WINTON																																																				
Mailing Address 2:	Not reported																																																				
Mailing City:	HAYWARD																																																				
Mailing State:	CA																																																				
Mailing Zip:	945450000																																																				
Owner Fax:	0000000000																																																				
Region Code:	2																																																				
Actual: 47 ft.																																																					

E21 SSW < 1/8 0.093 mi. 493 ft.	LAVISTA, SAKLAN 22958 SAKLAN ROAD HAYWARD, CA 94545 Site 1 of 2 in cluster E	RCRA-CESQG	1012175461 CAC002612323
---	---	-------------------	--

Relative: Lower	<table border="0" style="width: 100%;"> <tr><td colspan="2">RCRA-CESQG:</td></tr> <tr><td>Date form received by agency:</td><td>05/28/2008</td></tr> <tr><td>Facility name:</td><td>LAVISTA, SAKLAN</td></tr> <tr><td>Facility address:</td><td>22958 SAKLAN ROAD HAYWARD, CA 94545</td></tr> <tr><td>EPA ID:</td><td>CAC002612323</td></tr> <tr><td>Mailing address:</td><td>11555 DUBLIN BOULEVARD DUBLIN, CA 94568</td></tr> <tr><td>Contact:</td><td>JAMES B SUMMERS</td></tr> <tr><td>Contact address:</td><td>Not reported</td></tr> <tr><td>Contact country:</td><td>US</td></tr> <tr><td>Contact telephone:</td><td>925-803-4333</td></tr> <tr><td>Contact email:</td><td>JSUMMERS@DESILVAGROUP.COM</td></tr> <tr><td>EPA Region:</td><td>09</td></tr> <tr><td>Classification:</td><td>Conditionally Exempt Small Quantity Generator</td></tr> <tr><td>Description:</td><td>Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or</td></tr> </table>	RCRA-CESQG:		Date form received by agency:	05/28/2008	Facility name:	LAVISTA, SAKLAN	Facility address:	22958 SAKLAN ROAD HAYWARD, CA 94545	EPA ID:	CAC002612323	Mailing address:	11555 DUBLIN BOULEVARD DUBLIN, CA 94568	Contact:	JAMES B SUMMERS	Contact address:	Not reported	Contact country:	US	Contact telephone:	925-803-4333	Contact email:	JSUMMERS@DESILVAGROUP.COM	EPA Region:	09	Classification:	Conditionally Exempt Small Quantity Generator	Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or
RCRA-CESQG:																													
Date form received by agency:	05/28/2008																												
Facility name:	LAVISTA, SAKLAN																												
Facility address:	22958 SAKLAN ROAD HAYWARD, CA 94545																												
EPA ID:	CAC002612323																												
Mailing address:	11555 DUBLIN BOULEVARD DUBLIN, CA 94568																												
Contact:	JAMES B SUMMERS																												
Contact address:	Not reported																												
Contact country:	US																												
Contact telephone:	925-803-4333																												
Contact email:	JSUMMERS@DESILVAGROUP.COM																												
EPA Region:	09																												
Classification:	Conditionally Exempt Small Quantity Generator																												
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or																												
Actual: 39 ft.																													

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LAVISTA, SAKLAN (Continued)

1012175461

other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: LA VISTA LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/20/2005
Owner/Op end date: Not reported

Owner/operator name: EDEN HOUSING
Owner/operator address: 4018 JACKSON STREET
HAYWARD, CA 94544
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/14/2006
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LAVISTA, SAKLAN (Continued)

1012175461

. Waste code: D018
 . Waste name: BENZENE

Violation Status: No violations found

E22
SSW
 < 1/8
 0.093 mi.
 493 ft.

LA VISTA LLC
22958 SAKLAN ROAD
HAYWARD, CA 94545
Site 2 of 2 in cluster E

ENVIROSTOR
VCP
DEED

S109428314
N/A

Relative:
Lower

ENVIROSTOR:

Facility ID: 70000173
 Status: Certified O&M - Land Use Restrictions Only
 Status Date: 06/21/2010
 Site Code: 201610
 Site Type: Voluntary Cleanup
 Site Type Detailed: Voluntary Cleanup
 Acres: 3.34
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Claude Jemison
 Supervisor: Mark Piros
 Division Branch: Cleanup Berkeley
 Assembly: 20
 Senate: 10
 Special Program: CLRRRA Liability Immunity (AB 389)
 Restricted Use: YES
 Site Mgmt Req: REM, LUC, EXT
 Funding: Responsible Party
 Latitude: 37.6522
 Longitude: -122.1185
 APN: 441-0003-012, 441-0003-013, 441-0003-014, 441-003-015
 Past Use: MANUFACTURING - OTHER
 Potential COC: Tetrachloroethylene (PCE
 Confirmed COC: Tetrachloroethylene (PCE
 Potential Description: OTH
 Alias Name: De Silva Property
 Alias Type: Alternate Name
 Alias Name: De Silva Site
 Alias Type: Alternate Name
 Alias Name: Kroger Foods
 Alias Type: Alternate Name
 Alias Name: 441-0003-012
 Alias Type: APN
 Alias Name: 441-0003-013
 Alias Type: APN
 Alias Name: 441-0003-014
 Alias Type: APN
 Alias Name: 441-003-015
 Alias Type: APN
 Alias Name: 110033607639
 Alias Type: EPA (FRS #)
 Alias Name: 201610
 Alias Type: Project Code (Site Code)
 Alias Name: 70000173
 Alias Type: Envirostor ID Number

Actual:
 39 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/22/2014
Comments: General correspondence from January 1 - December 31, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/21/2015
Comments: Correspondence for the calendar year 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/07/2016
Comments: Correspondence for the calendar 2015 period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/20/2012
Comments: The cost estimate covers anticipated regulatory oversight expenses from 7/1/12 to 6/30/13.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/30/2013
Comments: Estimated costs for regulatory oversight by DTSC for the 2013-14 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2014
Comments: Estimate of DTSC costs for regulatory oversight for the fiscal year (July 1, 2014 to June 30, 2015).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Estimate of DTSC costs for regulatory oversight for the fiscal year (July 1, 2015 to June 30, 2016).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/11/2010
Comments: Annual cost estimate for DTSC oversight activities from 7/1/2010 to 6/30/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Date: 12/17/2013
Comments: Groundwater is not being used at the site. The site is in compliance with the Land Use Covenant that restricts groundwater usage.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/05/2015
Comments: Groundwater is not being used at the site. The site is in compliance with the Land Use Covenant that restricts groundwater usage.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/17/2015
Comments: The site is in compliance with the Land Use Covenant; groundwater is not being used at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 12/30/2016
Comments: Groundwater continues to not be used at the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 03/16/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2011
Comments: Estimate of costs for DTSC regulatory oversight from 7/1/2011 to 6/30/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/19/2007
Comments: Site visit conducted to view wells damaged as part of ongoing construction activities associated with the Site well. Wells to be repaired/replaced next year once redevelopment activities should no longer impact well areas.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 12/14/2006
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 12/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/19/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/12/2016
Comments: Estimate of DTSC costs for regulatory oversight for the fiscal year (July 1, 2016 to June 30, 2017).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 02/03/2006
Comments: Workplan accepted with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 389 Response Plan
Completed Date: 06/06/2006
Comments: DTSC approved Response Plan requiring removal of approximately 800 cubic yards of soil. Soil containing diesel and motor oil at concentrations above site cleanup goals will be excavated and disposed offsite to protect the groundwater. Soil containing tetrachloroethene and 1,4-dioxane in soil gas at concentrations above site cleanup goals will be excavated and disposed offsite to protect the indoor air of future residents. The excavated soil will be transported to a licensed disposal facility. A land use restriction will be recorded to prevent future use of the shallow groundwater containing low levels of volatile organic compounds until drinking water standards are achieved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/11/2006
Comments: Soil excavation and confirmation sampling activities completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/25/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Comments: Document approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Manual
Completed Date: 08/24/2006
Comments: O&M Plan accepted and attached to the O&M Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/02/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/24/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 12/21/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/23/2006
Comments: Response Plan reporting form required by statute.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/21/2006
Comments: No significant comments; damaged well to be repaired prior to next sampling event.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/27/2007
Comments: DTSC concurred that existing groundwater monitoring network is sufficient to monitor any residual contamination detected in the groundwater underlying the UST area and that no additional action is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/14/2007
Comments: Report acceptable.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/27/2007
Comments: Report approved. Top of casing elevations have been modified to accommodate redevelopment of the Site. Therefore, wells must be resurveyed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/01/2007
Comments: No problems noted; results similar to previous sampling results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 11/20/2007
Comments: MW-1, MW-3 and MW-4 have been damaged and need to be replaced. MW-2 and MW-5 are intact and will be sampled in December 2007. They will measure the depth to the bottom of the MW-2 and MW-5 to ensure that they were not impacted by ongoing redevelopment activities at the Site. The well casing in MW-2 appears to have been lowered. However, the top of casing has been resurveyed. Final grade should be achieved (barring significant rain) along North Lane and the curbs and gutters installed by the end of December 2007. Because the majority of redevelopment work affecting the soil at the Site should be completed by the end of December 2007, the damaged wells shall be replaced in early January 2007 to minimize the potential for subsequent damage to the wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/10/2008
Comments: Report documents work done in the past quarter. However, wells have not been resurveyed so that there may be errors in the potentiometric surface maps.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Date: 05/30/2008
Comments: Groundwater flow direction appears to be reversed based upon potentiometric surface map provided. They will survey all of the wells in the next quarter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/16/2008
Comments: Consultant indicated that they reanalyzed the groundwater flow direction input parameters for 1Q08 and concluded that the top of casing elevation data for MW-5 was probably erroneous. The top of casing elevation was reported as 40.452 feet above mean sea level at MW-5 during the 1Q08. Without any changes to this well, it was resurveyed as 38.930 feet above mean sea level during 2Q08. Therefore, it is likely that the top of casing elevation of MW-5 was altered during the installation of a sidewalk and they were not notified of this change. The potentially incorrect elevation data for MW-5 resulted in the groundwater flow direction being depicted to the east instead of the west.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 07/15/2011
Comments: The report summarized the groundwater monitoring, monitoring well destructions, and certifications that groundwater at the site is not being extracted for any use. The remedy is protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/21/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 11/02/2010
Comments: The wells were appropriately destroyed by pressure grouting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/15/2011
Comments: Groundwater is not being used at the site and the remedy remains protective.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/10/2012
Comments: Groundwater is not being used at the site so the site is in compliance with the deed restriction. Next year the owner can self-certify that the site is in compliance with the deed restriction.
Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/18/2012
Comments: The Site is in compliance with the land use restrictions. The remedy continues to be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/02/2010
Comments: Upon inspection, the Site appears to be in compliance with the land use restrictions (i.e. no groundwater extraction activities were observed).

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:

Facility ID: 70000173
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: REM, LUC, EXT
Acres: 3.34
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 201610
Assembly: 20
Senate: 10
Special Programs Code: CLRRRA Liability Immunity (AB 389)
Status: Certified O&M - Land Use Restrictions Only
Status Date: 06/21/2010
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.6522 / -122.1185
APN: 441-0003-012, 441-0003-013, 441-0003-014, 441-003-015
Past Use: MANUFACTURING - OTHER
Potential COC: 30022
Confirmed COC: 30022
Potential Description: OTH
Alias Name: De Silva Property
Alias Type: Alternate Name
Alias Name: De Silva Site
Alias Type: Alternate Name
Alias Name: Kroger Foods

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Alias Type: Alternate Name
Alias Name: 441-0003-012
Alias Type: APN
Alias Name: 441-0003-013
Alias Type: APN
Alias Name: 441-0003-014
Alias Type: APN
Alias Name: 441-003-015
Alias Type: APN
Alias Name: 110033607639
Alias Type: EPA (FRS #)
Alias Name: 201610
Alias Type: Project Code (Site Code)
Alias Name: 70000173
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/22/2014
Comments: General correspondence from January 1 - December 31, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/21/2015
Comments: Correspondence for the calendar year 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/07/2016
Comments: Correspondence for the calendar 2015 period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/20/2012
Comments: The cost estimate covers anticipated regulatory oversight expenses from 7/1/12 to 6/30/13.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/30/2013
Comments: Estimated costs for regulatory oversight by DTSC for the 2013-14 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2014
Comments: Estimate of DTSC costs for regulatory oversight for the fiscal year (July 1, 2014 to June 30, 2015).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Estimate of DTSC costs for regulatory oversight for the fiscal year (July 1, 2015 to June 30, 2016).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/11/2010
Comments: Annual cost estimate for DTSC oversight activities from 7/1/2010 to 6/30/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/17/2013
Comments: Groundwater is not being used at the site. The site is in compliance with the Land Use Covenant that restricts groundwater usage.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/05/2015
Comments: Groundwater is not being used at the site. The site is in compliance with the Land Use Covenant that restricts groundwater usage.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/17/2015
Comments: The site is in compliance with the Land Use Covenant; groundwater is not being used at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 12/30/2016
Comments: Groundwater continues to not be used at the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 03/16/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2011
Comments: Estimate of costs for DTSC regulatory oversight from 7/1/2011 to 6/30/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/19/2007
Comments: Site visit conducted to view wells damaged as part of ongoing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

construction activities associated with the Site well. Wells to be repaired/replaced next year once redevelopment activities should no longer impact well areas.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 12/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 12/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/19/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/12/2016
Comments: Estimate of DTSC costs for regulatory oversight for the fiscal year (July 1, 2016 to June 30, 2017).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 02/03/2006
Comments: Workplan accepted with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 389 Response Plan
Completed Date: 06/06/2006
Comments: DTSC approved Response Plan requiring removal of approximately 800 cubic yards of soil. Soil containing diesel and motor oil at concentrations above site cleanup goals will be excavated and disposed offsite to protect the groundwater. Soil containing tetrachloroethene and 1,4-dioxane in soil gas at concentrations above site cleanup goals will be excavated and disposed offsite to protect

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

the indoor air of future residents. The excavated soil will be transported to a licensed disposal facility. A land use restriction will be recorded to prevent future use of the shallow groundwater containing low levels of volatile organic compounds until drinking water standards are achieved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/11/2006
Comments: Soil excavation and confirmation sampling activities completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/25/2006
Comments: Document approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Manual
Completed Date: 08/24/2006
Comments: O&M Plan accepted and attached to the O&M Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/02/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/24/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 12/21/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/23/2006
Comments: Response Plan reporting form required by statute.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/21/2006
Comments: No significant comments; damaged well to be repaired prior to next sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/27/2007
Comments: DTSC concurred that existing groundwater monitoring network is sufficient to monitor any residual contamination detected in the groundwater underlying the UST area and that no additional action is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/14/2007
Comments: Report acceptable.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/27/2007
Comments: Report approved. Top of casing elevations have been modified to accommodate redevelopment of the Site. Therefore, wells must be resurveyed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/01/2007
Comments: No problems noted; results similar to previous sampling results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 11/20/2007
Comments: MW-1, MW-3 and MW-4 have been damaged and need to be replaced. MW-2 and MW-5 are intact and will be sampled in December 2007. They will measure the depth to the bottom of the MW-2 and MW-5 to ensure that they were not impacted by ongoing redevelopment activities at the Site. The well casing in MW-2 appears to have been lowered. However, the top of casing has been resurveyed. Final grade should be achieved (barring significant rain) along North Lane and the curbs and gutters installed by the end of December 2007. Because the majority of

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

redevelopment work affecting the soil at the Site should be completed by the end of December 2007, the damaged wells shall be replaced in early January 2007 to minimize the potential for subsequent damage to the wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/10/2008
Comments: Report documents work done in the past quarter. However, wells have not been resurveyed so that there may be errors in the potentiometric surface maps.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/30/2008
Comments: Groundwater flow direction appears to be reversed based upon potentiometric surface map provided. They will survey all of the wells in the next quarter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/16/2008
Comments: Consultant indicated that they reanalyzed the groundwater flow direction input parameters for 1Q08 and concluded that the top of casing elevation data for MW-5 was probably erroneous. The top of casing elevation was reported as 40.452 feet above mean sea level at MW-5 during the 1Q08. Without any changes to this well, it was resurveyed as 38.930 feet above mean sea level during 2Q08. Therefore, it is likely that the top of casing elevation of MW-5 was altered during the installation of a sidewalk and they were not notified of this change. The potentially incorrect elevation data for MW-5 resulted in the groundwater flow direction being depicted to the east instead of the west.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 07/15/2011
Comments: The report summarized the groundwater monitoring, monitoring well destructions, and certifications that groundwater at the site is not being extracted for any use. The remedy is protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/21/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 11/02/2010
Comments: The wells were appropriately destroyed by pressure grouting.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LA VISTA LLC (Continued)

S109428314

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/15/2011
Comments: Groundwater is not being used at the site and the remedy remains protective.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/10/2012
Comments: Groundwater is not being used at the site so the site is in compliance with the deed restriction. Next year the owner can self-certify that the site is in compliance with the deed restriction.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/18/2012
Comments: The Site is in compliance with the land use restrictions. The remedy continues to be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/02/2010
Comments: Upon inspection, the Site appears to be in compliance with the land use restrictions (i.e. no groundwater extraction activities were observed).

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:

Envirostor ID: 70000173
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 08/25/2006

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

F23 **ALHAMBRA HAYWARD** **HIST CORTESE** **S101293541**
SW **22950 CLAWITER** **N/A**
< 1/8 **HAYWARD, CA 94545**
0.114 mi.
601 ft. **Site 1 of 7 in cluster F**

Relative: HIST CORTESE:
Lower Region: CORTESE
 Facility County Code: 1
Actual: Reg By: LTNKA
37 ft. Reg Id: 01-0456

 Region: CORTESE
 Facility County Code: 1
 Reg By: LTNKA
 Reg Id: 01-0057

G24 **ALAMEDA NEWSPAPERS (URBANITE)** **CA FID UST** **S106027258**
WSW **1500 WEST WINTON AVE** **N/A**
1/8-1/4 **HAYWARD, CA 94540**
0.138 mi.
727 ft. **Site 1 of 5 in cluster G**

Relative: CA FID UST:
Lower Facility ID: 01001978
 Regulated By: UTKNI
Actual: Regulated ID: 982322455
34 ft. Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 5102932322
 Mail To: Not reported
 Mailing Address: 116 W WINTON AVE
 Mailing Address 2: Not reported
 Mailing City,St,Zip: HAYWARD 94540
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Inactive

G25 **URBANITE** **RCRA-SQG** **1000819320**
WSW **1500 W WINTON AVE** **SWEEPS UST** **CAD983652975**
1/8-1/4 **HAYWARD, CA 94545** **HAZNET**
0.138 mi.
727 ft. **Site 2 of 5 in cluster G**

Relative: RCRA-SQG:
Lower Date form received by agency: 11/13/1992
 Facility name: URBANITE
Actual: Facility address: 1500 W WINTON AVE
34 ft. HAYWARD, CA 94545
 EPA ID: CAD983652975
 Mailing address: P O BOX 5050
 HAYWARD, CA 94540
 Contact: DOUGLAS BRUMFIELD
 Contact address: 116 W WINTON AVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

URBANITE (Continued)

1000819320

HAYWARD, CA 94544
Contact country: US
Contact telephone: 510-293-2326
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: ALAMEDA NEWSPAPERS INC
Owner/operator address: P O BOX 5050
HAYWARD, CA 94540
Owner/operator country: Not reported
Owner/operator telephone: 510-783-6111
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

SWEEPS UST:

Status: Not reported
Comp Number: 507
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000507-000001
Tank Status: Not reported
Capacity: 1000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

URBANITE (Continued)

1000819320

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

HAZNET:

envid: 1000819320
Year: 2009
GEPaid: CAD983652975
Contact: DAVID MCDERMOTT / ENVTL ASST
Telephone: 5102932434
Mailing Name: Not reported
Mailing Address: 2640 SHADELANDS DR
Mailing City,St,Zip: WALNUT CREEK, CA 945980000
Gen County: Not reported
TSD EPA ID: CAD982409019
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.1815
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000819320
Year: 2007
GEPaid: CAD983652975
Contact: DAVID MCDERMOTT / ENVTL ASST
Telephone: 5102932434
Mailing Name: Not reported
Mailing Address: 401 13TH ST
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Not reported
TSD EPA ID: CAD980887418
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons: 15.75
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000819320
Year: 2007
GEPaid: CAD983652975
Contact: DAVID MCDERMOTT / ENVTL ASST
Telephone: 5102932434
Mailing Name: Not reported
Mailing Address: 401 13TH ST
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Not reported
TSD EPA ID: CAD980887418
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

URBANITE (Continued)

1000819320

(H010-H129) Or (H131-H135)
Tons: 10.5
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000819320
Year: 2007
GEPaid: CAD983652975
Contact: DAVID MCDERMOTT / ENVTL ASST
Telephone: 5102932434
Mailing Name: Not reported
Mailing Address: 401 13TH ST
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)

Tons: 0.6
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000819320
Year: 2007
GEPaid: CAD983652975
Contact: DAVID MCDERMOTT / ENVTL ASST
Telephone: 5102932434
Mailing Name: Not reported
Mailing Address: 401 13TH ST
Mailing City,St,Zip: OAKLAND, CA 94612
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)

Tons: 5.1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

[Click this hyperlink](#) while viewing on your computer to access
128 additional CA_HAZNET: record(s) in the EDR Site Report.

F26
SSW
1/8-1/4
0.142 mi.
752 ft.

CLERKS BUILDING MATERIALS
23040 CLAWITER ROAD
HAYWARD, CA 92508
Site 2 of 7 in cluster F

Notify 65 **S100178871**
N/A

Relative:
Lower

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported

Actual:
38 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLERKS BUILDING MATERIALS (Continued)

S100178871

Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

F27
SSW
1/8-1/4
0.142 mi.
752 ft.

CLARKS HOME & GARDEN
23040 CLAWITER
HAYWARD, CA 94545
Site 3 of 7 in cluster F

LUST **S102428117**
Alameda County CS **N/A**
HIST CORTESE

Relative:
Lower

LUST:

Actual:
38 ft.

Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100385
Global Id: T0600100385
Latitude: 37.650244
Longitude: -122.11971
Status: Completed - Case Closed
Status Date: 10/18/2001
Case Worker: Not reported
RB Case Number: 01-0424
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000045
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600100385
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100385
Action Type: REMEDIATION
Date: 09/09/9999
Action: Not reported

Global Id: T0600100385
Action Type: ENFORCEMENT
Date: 10/18/2001
Action: Closure/No Further Action Letter - #20011018

Global Id: T0600100385
Action Type: Other
Date: 12/02/1988
Action: Leak Reported

LUST:

Global Id: T0600100385
Status: Completed - Case Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLARKS HOME & GARDEN (Continued)

S102428117

Status Date: 10/18/2001
Global Id: T0600100385
Status: Open - Case Begin Date
Status Date: 12/02/1988

LUST REG 2:

Region: 2
Facility Id: 01-0424
Facility Status: Preliminary site assessment underway
Case Number: 3736
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 12/7/1988
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 8/1/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status: Case Closed
Record Id: RO0000045
PE: 5602
Facility Status: Case Closed
Latitude: 37.65068739
Longitude: -122.11999087

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0424

**F28
SW
1/8-1/4
0.161 mi.
849 ft.**

**DE SILVA GATES CONSTRUCTION
22991 CLAWITER RD
HAYWARD, CA 94545**

**AST A100419322
N/A**

Site 4 of 7 in cluster F

**Relative:
Lower**

AST:

Certified Unified Program Agencies: Not reported
Owner: DeSilva Gates Construction
Total Gallons: Not reported
CERSID: 10314421
Facility ID: 01-003-008301
Business Name: DE SILVA GATES CONSTRUCTION
Phone: 510-783-5019
Fax: Not reported
Mailing Address: 11555 DUBLIN BLVD
Mailing Address City: DUBLIN
Mailing Address State: CA

**Actual:
37 ft.**

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DE SILVA GATES CONSTRUCTION (Continued)

A100419322

Mailing Address Zip Code: 94568
 Operator Name: DeSilva Gates Construction
 Operator Phone: 510-783-5019
 Owner Phone: 925-829-9220
 Owner Mail Address: 11555 DUBLIN BLVD
 Owner State: CA
 Owner Zip Code: 94568
 Owner Country: United States
 Property Owner Name: Not reported
 Property Owner Phone: Not reported
 Property Owner Mailing Address: Not reported
 Property Owner City: Not reported
 Property Owner Stat : Not reported
 Property Owner Zip Code: Not reported
 Property Owner Country: Not reported
 EPAID: CAD981443120

F29
SW
1/8-1/4
0.161 mi.
849 ft.

OLIVER DE SILVA INC
22991 CLAWITER RD
HAYWARD, CA 94545
Site 5 of 7 in cluster F

Relative:
Lower

Actual:
37 ft.

RCRA-SQG 1000430766
LUST CAD981443120
SWEEPS UST
HIST UST
CA FID UST
CHMIRS
FINDS
ECHO
HAZNET
HIST CORTESE
NPDES

RCRA-SQG:

Date form received by agency: 09/01/1996
 Facility name: OLIVER DE SILVA INC
 Facility address: 22991 CLAWITER RD
 HAYWARD, CA 94545
 EPA ID: CAD981443120
 Mailing address: P O BOX 4437
 HAYWARD, CA 94540
 Contact: Not reported
 Contact address: Not reported
 Not reported
 Contact country: US
 Contact telephone: Not reported
 Contact email: Not reported
 EPA Region: 09
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: OLIVER DE SILVA INC
 Owner/operator address: NOT REQUIRED
 NOT REQUIRED, ME 99999
 Owner/operator country: Not reported
 Owner/operator telephone: 415-555-1212

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/10/1986
Site name: OLIVER DE SILVA INC
Classification: Large Quantity Generator

Violation Status: No violations found

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101007
Global Id: T0600101007
Latitude: 37.651242
Longitude: -122.121114
Status: Completed - Case Closed
Status Date: 05/14/2001
Case Worker: DMG
RB Case Number: 01-1093
Local Agency: HAYWARD, CITY OF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

File Location: Not reported
Local Case Number: 01-1093
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600101007
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101007
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101007
Action Type: Other
Date: 03/26/1986
Action: Leak Stopped

Global Id: T0600101007
Action Type: Other
Date: 03/26/1986
Action: Leak Reported

Global Id: T0600101007
Action Type: Other
Date: 03/26/1986
Action: Leak Discovery

LUST:

Global Id: T0600101007
Status: Completed - Case Closed
Status Date: 05/14/2001

Global Id: T0600101007
Status: Open - Case Begin Date
Status Date: 12/16/1985

Global Id: T0600101007
Status: Open - Remediation
Status Date: 05/04/1994

Global Id: T0600101007
Status: Open - Site Assessment
Status Date: 12/16/1985

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Global Id: T0600101007
Status: Open - Site Assessment
Status Date: 03/12/1986

LUST REG 2:

Region: 2
Facility Id: 01-1093
Facility Status: Case Closed
Case Number: 01-1093
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: 12/16/1985
Preliminary Site Assessment Began: 3/12/1986
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: 5/4/1994
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Active
Comp Number: 37402
Number: 1
Board Of Equalization: 44-000881
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-037402-000004
Tank Status: A
Capacity: 1000
Active Date: 04-07-93
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: 1

Status: Not reported
Comp Number: 37402
Number: Not reported
Board Of Equalization: 44-000881
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-037402-000001
Tank Status: Not reported
Capacity: 12500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Status: Not reported
Comp Number: 37402
Number: Not reported
Board Of Equalization: 44-000881
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-037402-000002
Tank Status: Not reported
Capacity: 12500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 37402
Number: Not reported
Board Of Equalization: 44-000881
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-037402-000003
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: MOTOR OIL
Number Of Tanks: Not reported

HIST UST:

File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000037402
Facility Type: Other
Other Type: GEN CONTRACTOR
Contact Name: Not reported
Telephone: 4157839220
Owner Name: OLIVER DE SILVA INC.
Owner Address: 22991 CLAWITER RD
Owner City,St,Zip: HAYWARD, CA 94545
Total Tanks: 0002

Tank Num: 001
Container Num: D1
Year Installed: 1971
Tank Capacity: 00012500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Tank Num: 002
Container Num: G2
Year Installed: 1971
Tank Capacity: 00012500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

CA FID UST:

Facility ID: 01002890
Regulated By: UTNKA
Regulated ID: 00037402
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4157839220
Mail To: Not reported
Mailing Address: CLAWITER RD
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CHMIRS:

OES Incident Number: 7-4435
OES notification: 11/10/1997
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	NO
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	UNION PACIFIC RR
Incident Date:	11/10/1997 12:00:00 AM
Admin Agency:	Hayward Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Rail Road
E Date:	Not reported
Substance:	AMTRAK ACCIDENT
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	AMTRAK #11 EB @ CLAWITER RD STRUCK VAN

FINDS:

Registry ID: 110009536699

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000430766
Registry ID: 110009536699
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110009536699>

HAZNET:

envid: 1000430766
Year: 2016
GEPaid: CAD981443120
Contact: RICH POPPOFF
Telephone: 5107835019
Mailing Name: Not reported
Mailing Address: 22991 CLAWITER RD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Alameda
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 1.95
Cat Decode: Other organic solids
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Alameda

envid: 1000430766
Year: 2016
GEPaid: CAD981443120
Contact: RICH POPPOFF
Telephone: 5107835019
Mailing Name: Not reported
Mailing Address: 22991 CLAWITER RD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Alameda
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.55
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Alameda

envid: 1000430766
Year: 2015
GEPaid: CAD981443120
Contact: RICH POPPOFF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Telephone: 5107835019
Mailing Name: Not reported
Mailing Address: 22991 CLAWITER RD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Alameda
TSD EPA ID: TND981920119
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 1.1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000430766
Year: 2014
GEPaid: CAD981443120
Contact: RICH POPPOFF
Telephone: 5107835019
Mailing Name: Not reported
Mailing Address: 22991 CLAWITER RD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Alameda
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Unspecified oil-containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.3
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000430766
Year: 2013
GEPaid: CAD981443120
Contact: RICH POPPOFF
Telephone: 5107835019
Mailing Name: Not reported
Mailing Address: 22991 CLAWITER RD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Alameda
TSD EPA ID: IDD073114654
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access
109 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:

Region: CORTESE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1093

NPDES:

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 180749
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 011004177
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/06/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Double D Transportation Co
Discharge Address: 22991 Clawiter Rd
Discharge City: Hayward
Discharge State: California
Discharge Zip: 94545
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: Not reported
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Not reported
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: Not reported
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	180749
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	2 011004177
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	05/09/2008
PROCESSED DATE:	04/06/1992
STATUS CODE NAME:	Active
STATUS DATE:	04/06/1992
PLACE SIZE:	7.1
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	David Vandegriff
FACILITY CONTACT TITLE:	Facility Manager
FACILITY CONTACT PHONE:	510-783-2335
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	dvandegriff@desilvagates.com
OPERATOR NAME:	Double D Transportation Co
OPERATOR ADDRESS:	22991 Clawiter Rd
OPERATOR CITY:	Hayward

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

OLIVER DE SILVA INC (Continued)

1000430766

OPERATOR STATE: California
 OPERATOR ZIP: 94545
 OPERATOR CONTACT NAME: David Vandegriff
 OPERATOR CONTACT TITLE: Facility Manager
 OPERATOR CONTACT PHONE: 510-783-2335
 OPERATOR CONTACT PHONE EXT: Not reported
 OPERATOR CONTACT EMAIL: dvandegriff@desilvagates.com
 OPERATOR TYPE: Private Business
 DEVELOPER NAME: Not reported
 DEVELOPER ADDRESS: Not reported
 DEVELOPER CITY: Not reported
 DEVELOPER STATE: California
 DEVELOPER ZIP: Not reported
 DEVELOPER CONTACT NAME: Not reported
 DEVELOPER CONTACT TITLE: Not reported
 CONSTYPE LINEAR UTILITY IND: Not reported
 EMERGENCY PHONE NO: 510-783-2335
 EMERGENCY PHONE EXT: Not reported
 CONSTYPE ABOVE GROUND IND: Not reported
 CONSTYPE BELOW GROUND IND: Not reported
 CONSTYPE CABLE LINE IND: Not reported
 CONSTYPE COMM LINE IND: Not reported
 CONSTYPE COMMERTIAL IND: Not reported
 CONSTYPE ELECTRICAL LINE IND: Not reported
 CONSTYPE GAS LINE IND: Not reported
 CONSTYPE INDUSTRIAL IND: Not reported
 CONSTYPE OTHER DESCRIPTION: Not reported
 CONSTYPE OTHER IND: Not reported
 CONSTYPE RECONS IND: Not reported
 CONSTYPE RESIDENTIAL IND: Not reported
 CONSTYPE TRANSPORT IND: Not reported
 CONSTYPE UTILITY DESCRIPTION: Not reported
 CONSTYPE UTILITY IND: Not reported
 CONSTYPE WATER SEWER IND: Not reported
 DIR DISCHARGE USWATER IND: N
 RECEIVING WATER NAME: San Francisco Bay
 CERTIFIER NAME: David Vandegriff
 CERTIFIER TITLE: Facility Manager
 CERTIFICATION DATE: 22-JUL-15
 PRIMARY SIC: 4214-Local Trucking with Storage
 SECONDARY SIC: Not reported
 TERTIARY SIC: Not reported

F30
SW
1/8-1/4
0.161 mi.
849 ft.

DESILVA GATE CONSTRUCTION
22991 CLAWITER ROAD
HAYWARD, CA

AST A100176117
N/A

Site 6 of 7 in cluster F

Relative:
Lower

AST:
 Certified Unified Program Agencies: Hayward
 Owner: DESILVA GATES CONSTRUCTION
 Total Gallons: 4,400
 CERSID: Not reported
 Facility ID: Not reported
 Business Name: Not reported
 Phone: Not reported
 Fax: Not reported

Actual:
37 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DESILVA GATE CONSTRUCTION (Continued)

A100176117

Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

F31
SW
1/8-1/4
0.161 mi.
849 ft.

DOUBLE D TRANSPORATION CO
22991 CLAWITER RD
HAYWARD, CA 94545

RCRA NonGen / NLR **1000163724**
HAZNET **CAD049085780**

Site 7 of 7 in cluster F

Relative:
Lower

RCRA NonGen / NLR:

Actual:
37 ft.

Date form received by agency: 09/09/1986
Facility name: DOUBLE D TRANSPORATION CO
Facility address: 22991 CLAWITER RD
HAYWARD, CA 94545
EPA ID: CAD049085780
Mailing address: PO BOX 4437
HAYWARD, CA 94540
Contact: ENVIRONMENTAL MANAGER
Contact address: 22991 CLAWITER RD
HAYWARD, CA 94545
Contact country: US
Contact telephone: 415-783-2334
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: OLIVER DESILVA INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE D TRANSPORATION CO (Continued)

1000163724

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

HAZNET:

envid: 1000163724
Year: 2006
GEPaid: CAD049085780
Contact: JEFF WORKMAN - SAFETY MANAGER
Telephone: 5107832334
Mailing Name: Not reported
Mailing Address: PO BOX 4437
Mailing City,St,Zip: HAYWARD, CA 945404437
Gen County: Not reported
TSD EPA ID: CAL000161743
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.35
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

envid: 1000163724
Year: 2005
GEPaid: CAD049085780
Contact: JEFF WORKMAN - SAFETY MANAGER
Telephone: 5107832334

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DOUBLE D TRANSPORATION CO (Continued)

1000163724

Mailing Name: Not reported
 Mailing Address: PO BOX 4437
 Mailing City,St,Zip: HAYWARD, CA 945404437
 Gen County: Not reported
 TSD EPA ID: CAL000161743
 TSD County: Not reported
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: 0.4
 Cat Decode: Not reported
 Method Decode: Not reported
 Facility County: Alameda

envid: 1000163724
 Year: 1993
 GEPAID: CAD049085780
 Contact: Not reported
 Telephone: 0000000000
 Mailing Name: Not reported
 Mailing Address: PO BOX 4437
 Mailing City,St,Zip: HAYWARD, CA 945404437
 Gen County: Not reported
 TSD EPA ID: CAT000646117
 TSD County: Not reported
 Waste Category: Other inorganic solid waste
 Disposal Method: Disposal, Land Fill
 Tons: 5.89960000000
 Cat Decode: Not reported
 Method Decode: Not reported
 Facility County: 1

G32
WSW
1/8-1/4
0.163 mi.
863 ft.

Relative:
Lower

Actual:
33 ft.

USANG CA HAYWARD BASE
1525 WEST WINTON AVE
HAYWARD, CA 94545

Site 3 of 5 in cluster G

RESPONSE **1000435174**
ENVIROSTOR **N/A**
HIST Cal-Sites
SWEEPS UST
HIST UST
CA FID UST
MCS
FINDS
ECHO
NPDES

AWP:
 AWP Facility ID: 01970009
 Region Code: 1
 Region: SACRAMENTO
 SMBR Branch Code: NO
 SMBR Branch Unit: OMF-NORTHERN CALIF
 Site Name.: HAYWARD AIR NATIONAL GUARD
 Current Status Date: 08171995
 Current Status: ANNUAL WORKPLAN - ACTIVE SITE
 Lead Agency Code: DTSC
 Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
 Facility Type: Open military facility
 Awp Site Type: OPEN MILITARY BASE
 NPL: Not Listed
 Tier Of AWP Site: Not reported
 Source Of Funding: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Responsible Staff Member: LMCMAHA1
Supervisor Responsible: Not reported
SIC Code: 97
Facility SIC: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
RWQCB Code: SF
RWQCB Associated With Site: SAN FRANCISCO BAY
Site Access Controlled: Controlled
Site Listed HWS List: Not reported
Hazard Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Of Contamination Sources: 0
Lat/Long: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Description Of Entity: Not reported
State Assembly Distt Code: 18
State Senate District: 10

RESPONSE:

Facility ID: 1970009
Site Type: State Response
Site Type Detail: Open Base
Acres: 27
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Elena Joy Pelen
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200588
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 20
Senate: 10
Special Program Status: DSMOA
Status: Certified
Status Date: 06/21/2017
Restricted Use: NO
Funding: DERA
Latitude: 37.65478
Longitude: -122.1220
APN: 432-124-2
Past Use: AIRFIELD OPERATIONS, ELECTRIC GENERATION/SUBSTATION
Potential COC : * HYDROCARBON SOLVENTS * Pesticides - Rinse Waters * AQUEOUS SOLUTION WITH METALS * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs)
Confirmed COC: * HYDROCARBON SOLVENTS 10076-NO 10093-NO * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs)
Potential Description: OTH, SOIL, SV, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:

Facility ID: 1970009
Status: Certified
Status Date: 06/21/2017
Site Code: 200588
Site Type: State Response
Site Type Detailed: Open Base
Acres: 27
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Elena Joy Pelen
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: DSMOA
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 37.65478
Longitude: -122.1220
APN: 432-124-2
Past Use: AIRFIELD OPERATIONS, ELECTRIC GENERATION/SUBSTATION
Potential COC: * HYDROCARBON SOLVENTS * Pesticides - Rinse Waters * AQUEOUS SOLUTION WITH METALS * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs)
Confirmed COC: * HYDROCARBON SOLVENTS 10076-NO 10093-NO * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES TPH-diesel TPH-gas Polynuclear aromatic hydrocarbons (PAHs)
Potential Description: OTH, SOIL, SV, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:

Region: SACRAMENTO
Facility ID: 01970009
Facility Type: OPEN
Type: OPEN MILITARY BASE
Branch: NO
Branch Name: OMF-NORTHERN CALIF
File Name: HAYWARD AIR NATIONAL GUARD
State Senate District: 08171995
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: LMCMAHA1
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 18
State Senate District Code: 10
Facility ID: Not reported
Activity: Not reported
Activity Name: Not reported
AWP Code: Not reported
Proposed Budget: Not reported
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: Not reported
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: Not reported
Definition of Status: Not reported
Liquids Removed (Gals): Not reported
Liquids Treated (Gals): Not reported
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: Not reported
For Industrial Reuse: Not reported
For Residential Reuse: Not reported
Unknown Type: Not reported
Alternate Address: 1525 WEST WINSTON AVE
Alternate City,St,Zip: HAYWARD, CA 94545
Alternate Address: 1525 WEST WINTON AVENUE
Alternate City,St,Zip: HAYWARD, CA 94545
Background Info: *** SITE SPECIFIC DESCRIPTION *** Hayward Air National Guard Station (HANGS) is located on a portion of the former Hayward Army Airfield (HAA). The HAA came into operation in the early 1940s, with the entry of the United States into World War II. The HANGS consists of numerous buildings that house office, vehicles, and equipment. The areas surrounding the buildings generally consist of paved parking and unimproved land. Activities resulting in the generation of hazardous materials at HANGS have included maintenance of air-craft, vehicles, and aerospace ground equipment, activities related to the application of pesticides, leaks from electrical equipment, and non-destructive inspection testing. *** OPERABLE UNIT/SITE DESCRIPTIONS *** IRP04 - Leaking Vehicle Maintenance Underground Storage Tank (UST); COCs: metals, pesticides, TPH, PCBs, dioxins/furans, SVOCs, VOCs. IRP05 - Abandoned Jet Fuel USTs; COCs: metals, pesticides, TPH, PCBs, dioxins/furans, SVOCs, VOCs. IRP06 - Area D - Former Aircraft Wash Rack; COCs: metals, pesticides, TPH, PCBs, dioxins/furans, SVOCs, VOCs. IRP07 - Area E - Former Aircraft Parking Apron; COCs: TPH, SVOCs. IRP08 - Area F - Former Petroleum, Oil, and Lubricants facility; COCs: TPH, SVOCs. IRP09 - Area G - Equipment Maintenance Area; COCs: metals, TPH, SVOCs. AREA H - Area H - Southwest Corner of Station; COCs: metals, pesticides, TPH, PCBs, SVOCs. AREA I - West Side of Hangar; COCs: TPH, PCBs. IRP10 - Area J - Former Transformer Location J; COCs: TPH, PCBs. IRP11 - Area K - Former Transformer Location K; COCs: TPH, PCBs. AREAL - Area L - Former Transformer Location L; COCs: TPH, PCBs. AREAM - Area M - Former Transformer Location M; COCs: TPH, PCBs. AREAN - Area N - Former Transformer Location N; COCs: TPH, PCBs. SD - Storm Drains; COCs, metals, SVOCs. *** COMMITMENT DESCRIPTION *** BASWD - Basewide activity means it covers the area currently under control of Hayward Air National Guard.
Comments Date: 01242005
Comments: DTSC approved the CIP by signature on the cover page.
ID Name: Not reported
ID Value: Not reported
Alternate Name: HAYWARD AIR TERMINAL
Alternate Name: HAYWARD AIR NATIONAL GUARD
Alternate Name: Hayward ANG, Hayward CA
Alternate Name: Not reported
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

SWEEPS UST:

Status: Active
Comp Number: 7560
Number: 7

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Board Of Equalization: Not reported
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 02-29-88
Owner Tank Id: HW00116
SWRCB Tank Id: 01-003-007560-000005
Tank Status: A
Capacity: 6000
Active Date: 04-07-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000001
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: JET FUEL
Number Of Tanks: 7

Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000002
Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: JET FUEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Tank Status: Not reported
Capacity: 20000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: JET FUEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000004
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000006
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000007
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Number Of Tanks: Not reported
Status: Not reported
Comp Number: 7560
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-007560-000008
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:

File Number: 00035DC9
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035DC9.pdf>
Region: STATE
Facility ID: 00000007560
Facility Type: Other
Other Type: AIR NATIONAL GUARD
Contact Name: LT COL DONALD W STRAUCH
Telephone: 9169272461
Owner Name: CALIFORNIA AIR NATIONAL GUARD
Owner Address: PO BOX 214405
Owner City,St,Zip: SACRAMENTO, CA 958210404
Total Tanks: 0011

Tank Num: 001
Container Num: HW00101-01
Year Installed: 1949
Tank Capacity: 00025000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: HW00101-02
Year Installed: 1949
Tank Capacity: 00025000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: HW00101-03
Year Installed: 1949
Tank Capacity: 00025000
Tank Used for: PRODUCT
Type of Fuel: DIESEL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 004
Container Num: HW00110---
Year Installed: 1951
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 005
Container Num: HW00116---
Year Installed: 1981
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 006
Container Num: HW00115-02
Year Installed: 1965
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 007
Container Num: HW00115-01
Year Installed: 1965
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 008
Container Num: HW00212---
Year Installed: Not reported
Tank Capacity: 00001500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 009
Container Num: HW00213---
Year Installed: Not reported
Tank Capacity: 00001500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Tank Num: 010
Container Num: HW00214---
Year Installed: Not reported
Tank Capacity: 00000750
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 011
Container Num: HW00114---
Year Installed: 1949
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

[Click here for Geo Tracker PDF:](#)

CA FID UST:

Facility ID: 01000394
Regulated By: UTNKA
Regulated ID: 00007560
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 9169272461
Mail To: Not reported
Mailing Address: 162CIV ENGIN 3900 RO RD
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 945451386
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

MCS:

Global Id: T0600196771
Latitude: 37.65512
Longitude: -122.1222
Case Type: Military Cleanup Site
Status: Open - Inactive
Status Date: 12/19/2005
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Caseworker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: Not reported
LOC Case Number: 01970009
File Location: Not reported
Potential Media Affect: Not reported
EDR Link ID: T0600196771
Potential Contaminants of Concern: Not reported
Site History: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

Click here to access the California GeoTracker records for this facility:

FINDS:

Registry ID: 110002625295

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

FEDERAL FACILITY HAZARDOUS WASTE DOCKET

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

SUPERFUND (NON-NPL)

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000435174
Registry ID: 110002625295
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002625295>

NPDES:

Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 2
Regulatory Measure Id: 275413
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 2 011006094
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 05/09/2008
PROCESSED DATE: 04/21/1992
STATUS CODE NAME: Terminated

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

USANG CA HAYWARD BASE (Continued)

1000435174

STATUS DATE: 04/21/1992
PLACE SIZE: 44
PLACE SIZE UNIT: Acres
FACILITY CONTACT NAME: Richard D King
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: 510-783-1661
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: California Air National Guard
OPERATOR ADDRESS: 113 Mulcahey Dr
OPERATOR CITY: Port Hueneme
OPERATOR STATE: California
OPERATOR ZIP: 93041
OPERATOR CONTACT NAME: Msgt Guy H Fleming
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: 916-927-2461
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: State Agency
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: California
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: 510-783-1661
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: Not reported
RECEIVING WATER NAME: Local Creek Leading To Sf Bay
CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: 4213-Trucking, Except Local
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

G33
WSW
1/8-1/4
0.163 mi.
863 ft.

HAYWARD AIR NATIONAL GUARD BASE
HAYWARD AIR NATIONAL GUARD BASE
HAYWARD, CA 94545

SEMS 1015730581
RCRA-SQG CA3572890140

Site 4 of 5 in cluster G

Relative:
Lower

SEMS:
Site ID: 900140
EPA ID: CA3572890140
Federal Facility: Y
NPL: Not on the NPL
Non NPL Status: Fed Fac Site Inspection Review Start Needed

Actual:
33 ft.

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID: 0900140
EPA ID: CA3572890140
Facility County: ALAMEDA
Short Name: HAYWARD AIR NATIONAL GUAR
Congressional District: 09
IFMS ID: Not reported
SMSA Number: 7360
USGC Hydro Unit: 18050004
Federal Facility: Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: USAF
Non NPL Status: Fed Fac Site Inspection Review Start Needed
Non NPL Status Date: 07/14/06
Site Fips Code: 06001
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13003854.00000
Contact Name: Leslie Ramirez
Contact Tel: (415) 972-3978
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR NATIONAL GUARD BASE (Continued)

1015730581

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 9270057
Alias Name: HAYWARD AIR NATIONAL GUARD BASE
Alias Address: 1525 WEST WINTON AVE
HAYWARD, CA 92032
Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 08/01/87
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 03/29/94
Priority Level: Low priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

RCRA-SQG:

Date form received by agency: 09/01/1996
Facility name: USANG CA HAYWARD BASE
Facility address: 1525 WEST WINTON AVE
HAYWARD, CA 94545
EPA ID: CA3572890140
Mailing address: 162 CISG/DEM THIRD THOUSAND NI
NORTH HIGHLANDS, CA 95660
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR NATIONAL GUARD BASE (Continued)

1015730581

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CALIFORNIA AIR NATIONAL GUARD, DFNC DEPT
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 07/20/1990
Site name: HAYWARD AIR NATIONAL GUARD BASE
Classification: Large Quantity Generator

Date form received by agency: 05/02/1986
Site name: USANG CA HAYWARD BASE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR NATIONAL GUARD BASE (Continued)

1015730581

Classification: Large Quantity Generator

Violation Status: No violations found

G34
WSW
1/8-1/4
0.163 mi.
863 ft.

CALIFORNIA AIR NATIONAL GUARD
1525 WINTON AVE W
HAYWARD, CA 94545

SLIC S104396747
HIST CORTESE N/A

Site 5 of 5 in cluster G

Relative:
Lower

SLIC REG 2:

Region: 2
Facility ID: 01-0261
Facility Status: Preliminary site assessment underway
Date Closed: Not reported
Local Case #: 01-0261
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Confirmed: 3/25/1986
Date Prelim Site Assmnt Workplan Submitted: 5/22/1986
Date Preliminary Site Assessment Began: 8/23/1990
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Actual:
33 ft.

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0261

Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01970009

H35
SSW
1/8-1/4
0.183 mi.
968 ft.

ALHAMBRA HAYWARD
22990 CLAWITER RD
HAYWARD, CA 94545

LUST S101293542
N/A

Site 1 of 4 in cluster H

Relative:
Lower

LUST REG 2:

Region: 2
Facility Id: 01-0057
Facility Status: Case Closed
Case Number: 01-0057
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported

Actual:
38 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ALHAMBRA HAYWARD (Continued)

S101293542

Pollution Remediation Plan Submitted: Not reported
 Date Remediation Action Underway: Not reported
 Date Post Remedial Action Monitoring Began: Not reported

H36
SSW
1/8-1/4
0.183 mi.
968 ft.

ALHAMBRA NATIONAL WATER CO IN
22990 CLAWATER ROAD
HAYWARD, CA 94545
Site 2 of 4 in cluster H

HIST UST **S118407353**
N/A

Relative:
Lower

HIST UST:

File Number: 00035CFD
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035CFD.pdf>
 Region: Not reported
 Facility ID: Not reported
 Facility Type: Not reported
 Other Type: Not reported
 Contact Name: Not reported
 Telephone: Not reported
 Owner Name: Not reported
 Owner Address: Not reported
 Owner City,St,Zip: Not reported
 Total Tanks: Not reported

Actual:
38 ft.

Tank Num: Not reported
 Container Num: Not reported
 Year Installed: Not reported
 Tank Capacity: Not reported
 Tank Used for: Not reported
 Type of Fuel: Not reported
 Container Construction Thickness: Not reported
 Leak Detection: Not reported

[Click here for Geo Tracker PDF:](#)

H37
SSW
1/8-1/4
0.183 mi.
968 ft.

ALHAMBRA NATIONAL WATER CO. IN
22990 CLAWITER RD
HAYWARD, CA 94545
Site 3 of 4 in cluster H

HIST UST **U001597122**
N/A

Relative:
Lower

HIST UST:

File Number: Not reported
 URL: Not reported
 Region: STATE
 Facility ID: 00000029815
 Facility Type: Gas Station
 Other Type: Not reported
 Contact Name: CHARLES CLINTON
 Telephone: 4157832498
 Owner Name: ALHAMBRA NATIONAL WATER CO. IN
 Owner Address: 2450 WASHINGTON AVENUE
 Owner City,St,Zip: SAN LEANDRO, CA 94577
 Total Tanks: 0001

Actual:
38 ft.

Tank Num: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALHAMBRA NATIONAL WATER CO. IN (Continued)

U001597122

Container Num: 3731-1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: Not reported
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

H38
SSW
1/8-1/4
0.183 mi.
968 ft.

ALHAMBRA NATIONAL WATER CO. IN
22990 CLAWITER RD
HAYWARD, CA 94545
Site 4 of 4 in cluster H

LUST **S101630289**
SWEEPS UST **N/A**
CA FID UST

Relative:
Lower

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100051
Global Id: T0600100051
Latitude: 37.650681
Longitude: -122.119378
Status: Completed - Case Closed
Status Date: 05/29/1996
Case Worker: DMG
RB Case Number: 01-0057
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-0057
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Actual:
38 ft.

LUST:

Global Id: T0600100051
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600100051
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100051
Action Type: ENFORCEMENT
Date: 05/22/1996
Action: Closure/No Further Action Letter

Global Id: T0600100051

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALHAMBRA NATIONAL WATER CO. IN (Continued)

S101630289

Action Type: Other
Date: 08/29/1986
Action: Leak Stopped

Global Id: T0600100051
Action Type: Other
Date: 08/29/1986
Action: Leak Reported

Global Id: T0600100051
Action Type: Other
Date: 08/29/1986
Action: Leak Discovery

LUST:

Global Id: T0600100051
Status: Completed - Case Closed
Status Date: 05/29/1996

Global Id: T0600100051
Status: Open - Case Begin Date
Status Date: 08/29/1986

SWEEPS UST:

Status: Not reported
Comp Number: 29815
Number: Not reported
Board Of Equalization: 44-000870
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-029815-000001
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 1

CA FID UST:

Facility ID: 01001078
Regulated By: UTNKA
Regulated ID: 000032364
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5107836155
Mail To: Not reported
Mailing Address: ONE POST ST
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ALHAMBRA NATIONAL WATER CO. IN (Continued)

S101630289

NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

39
SSE
1/8-1/4
0.216 mi.
1142 ft.

EDEN 3 PROPOSED DEVELOPMENT
23645, 23653 EDEN AVENUE
HAYWARD, CA 94545

ENVIROSTOR **S118466270**
VCP **N/A**

Relative:
Lower

ENVIROSTOR:

Actual:
40 ft.

Facility ID: 60002274
 Status: No Further Action
 Status Date: 03/09/2016
 Site Code: 202069
 Site Type: Voluntary Cleanup
 Site Type Detailed: Voluntary Cleanup
 Acres: 2
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Tom Price
 Supervisor: Karen Toth
 Division Branch: Cleanup Berkeley
 Assembly: , 20
 Senate: , 10
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: Responsible Party
 Latitude: 37.65010
 Longitude: -122.1163
 APN: NONE SPECIFIED
 Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
 Potential COC: Chlordane Lead Dieldrin
 Confirmed COC: Chlordane Lead Dieldrin
 Potential Description: SOIL
 Alias Name: 202069
 Alias Type: Project Code (Site Code)
 Alias Name: 60002274
 Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Voluntary Cleanup Agreement
 Completed Date: 12/23/2015
 Comments: The Voluntary Cleanup Agreement scope covers review of a Preliminary Endangerment Assessment report by DTSC.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Characterization Report
 Completed Date: 10/02/2014
 Comments: The report summarized the previous 2006 sampling investigation report conducted by Terrasearch, Inc. and provided additional Phase I Environmental Site Assessment information. This report was prepared

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDEN 3 PROPOSED DEVELOPMENT (Continued)

S118466270

prior to DTSC's involvement with the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/10/2014
Comments: The report documented the results of soil sampling at 9 soil samples with testing for metals and pesticides. Testing showed contaminants including lead and, chlordane, dieldrin, and low levels of DDT-related compounds. Additional information was provided in a Phase 1 Environmental Site Assessment section. This report was prepared prior to DTSC's involvement with the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/09/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/10/2006
Comments: The report documented investigation of shallow soils for metals and pesticides. Contaminants of concern were identified including arsenic, lead, and chlordane. The report was prepared prior to DTSC's involvement with the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 11/23/2015
Comments: The application was accepted and DTSC agreed to provide regulatory oversight.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 01/15/2016
Comments: The workplan describes soil sampling and testing for pesticides and metals. The locations of the soil sampling locations are located around historical structures (residences and garages), and around locations where soil excavation was completed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60002274
Site Type: Voluntary Cleanup

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDEN 3 PROPOSED DEVELOPMENT (Continued)

S118466270

Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Tom Price
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 202069
Assembly: , 20
Senate: , 10
Special Programs Code: Not reported
Status: No Further Action
Status Date: 03/09/2016
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.65010 / -122.1163
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: 30004, 30013, 30207
Confirmed COC: 30004,30013,30207
Potential Description: SOIL
Alias Name: 202069
Alias Type: Project Code (Site Code)
Alias Name: 60002274
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/23/2015
Comments: The Voluntary Cleanup Agreement scope covers review of a Preliminary Endangerment Assessment report by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/02/2014
Comments: The report summarized the previous 2006 sampling investigation report conducted by Terrasearch, Inc. and provided additional Phase I Environmental Site Assessment information. This report was prepared prior to DTSC's involvement with the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/10/2014
Comments: The report documented the results of soil sampling at 9 soil samples with testing for metals and pesticides. Testing showed contaminants including lead and, chlordane, dieldrin, and low levels of DDT-related compounds. Additional information was provided in a Phase 1 Environmental Site Assessment section. This report was prepared prior to DTSC's involvement with the site.

Completed Area Name: PROJECT WIDE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EDEN 3 PROPOSED DEVELOPMENT (Continued)

S118466270

Completed Sub Area Name: Not reported
 Completed Document Type: Preliminary Endangerment Assessment Report
 Completed Date: 02/09/2016
 Comments: Not reported

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Characterization Report
 Completed Date: 11/10/2006
 Comments: The report documented investigation of shallow soils for metals and pesticides. Contaminants of concern were identified including arsenic, lead, and chlordane. The report was prepared prior to DTSC's involvement with the site.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Application
 Completed Date: 11/23/2015
 Comments: The application was accepted and DTSC agreed to provide regulatory oversight.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Characterization Workplan
 Completed Date: 01/15/2016
 Comments: The workplan describes soil sampling and testing for pesticides and metals. The locations of the soil sampling locations are located around historical structures (residences and garages), and around locations where soil excavation was completed.

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

40
SW
1/8-1/4
0.227 mi.
1197 ft.

BOB QUATMAN
22390 THUNDERBIRD PL
HAYWARD, CA 94545

SWEEPS UST **S101580243**
CA FID UST **N/A**
HAZNET

Relative:
Lower

SWEEPS UST:
 Status: Not reported
 Comp Number: 19
 Number: Not reported
 Board Of Equalization: Not reported
 Referral Date: Not reported
 Action Date: Not reported
 Created Date: Not reported
 Owner Tank Id: Not reported
 SWRCB Tank Id: 01-003-000019-000001
 Tank Status: Not reported
 Capacity: 5000

Actual:
34 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOB QUATMAN (Continued)

S101580243

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 19
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000019-000002
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 19
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000019-000003
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 01002285
Regulated By: UTKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158824315
Mail To: Not reported
Mailing Address: 10 HILLTOP DR P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOB QUATMAN (Continued)

S101580243

Status: Inactive

HAZNET:

envid: S101580243
Year: 2013
GEPID: CAL000388651
Contact: BRUCE BABB
Telephone: 5102769211
Mailing Name: Not reported
Mailing Address: 22390 THUNDERBIRD PL
Mailing City,St,Zip: HAYWARD, CA 94545
Gen County: Alameda
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.231
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

41
WSW
1/8-1/4
0.241 mi.
1271 ft.

OAKLAND FENCE COMPANY
1580 WINTON AVE W
HAYWARD, CA 94545

LUST S101306590
SWEEPS UST N/A
HIST CORTESE

Relative:
Lower

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100989
Global Id: T0600100989
Latitude: 37.6530095
Longitude: -122.1225222
Status: Completed - Case Closed
Status Date: 07/09/2004
Case Worker: DMG
RB Case Number: 01-1072
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-1072
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Actual:
31 ft.

LUST:

Global Id: T0600100989
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600100989
Contact Type: Regional Board Caseworker

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OAKLAND FENCE COMPANY (Continued)

S101306590

Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100989
Action Type: ENFORCEMENT
Date: 08/05/2004
Action: Closure/No Further Action Letter

Global Id: T0600100989
Action Type: Other
Date: 09/07/1988
Action: Leak Stopped

Global Id: T0600100989
Action Type: ENFORCEMENT
Date: 07/09/2004
Action: Referral to Regional Board

Global Id: T0600100989
Action Type: Other
Date: 09/07/1988
Action: Leak Reported

Global Id: T0600100989
Action Type: Other
Date: 09/07/1988
Action: Leak Discovery

LUST:

Global Id: T0600100989
Status: Completed - Case Closed
Status Date: 07/09/2004

Global Id: T0600100989
Status: Open - Case Begin Date
Status Date: 09/07/1988

Global Id: T0600100989
Status: Open - Site Assessment
Status Date: 09/07/1988

LUST REG 2:

Region: 2
Facility Id: 01-1072
Facility Status: Case Closed
Case Number: 01-1072
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 9/7/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OAKLAND FENCE COMPANY (Continued)

S101306590

Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Not reported
Comp Number: 509
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000509-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1072

42
SSW
1/4-1/2
0.283 mi.
1495 ft.

**TRIDENT TRUCK LINE
23250 CLAWITER RD
HAYWARD, CA 94545**

**LUST S101306484
HIST CORTESE N/A**

**Relative:
Lower**

LUST REG 2:

Region: 2
Facility Id: 01-0650
Facility Status: Case Closed
Case Number: 01-0650
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 4/29/1993
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 4/28/1993
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRIDENT TRUCK LINE (Continued)

S101306484

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0650

I43
SW
1/4-1/2
0.288 mi.
1520 ft.

CUHNA PROPERTY
22409 THUNDERBIRD
HAYWARD, CA 94545

LUST S101580066
HIST CORTESE N/A

Site 1 of 2 in cluster I

Relative:
Lower

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100759
Global Id: T0600100759
Latitude: 37.650718
Longitude: -122.122982
Status: Completed - Case Closed
Status Date: 05/11/1998
Case Worker: DMG
RB Case Number: 01-0823
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-0823
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Actual:
33 ft.

LUST:

Global Id: T0600100759
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600100759
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100759
Action Type: Other
Date: 08/10/1990
Action: Leak Discovery

Global Id: T0600100759
Action Type: Other
Date: 08/10/1990
Action: Leak Stopped

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CUHNA PROPERTY (Continued)

S101580066

Global Id: T0600100759
Action Type: Other
Date: 01/14/1991
Action: Leak Reported

LUST:

Global Id: T0600100759
Status: Completed - Case Closed
Status Date: 05/11/1998

Global Id: T0600100759
Status: Open - Case Begin Date
Status Date: 08/10/1990

Global Id: T0600100759
Status: Open - Site Assessment
Status Date: 01/24/1996

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0823

**I44
SW
1/4-1/2
0.288 mi.
1520 ft.**

**CUNHA PROPERTY
22409 THUNDERBIRD PL
HAYWARD, CA 94545**

Site 2 of 2 in cluster I

**LUST S102428534
N/A**

**Relative:
Lower**

LUST REG 2:

Region: 2
Facility Id: 01-0823
Facility Status: Case Closed
Case Number: 01-0823
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 1/24/1996
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

**Actual:
33 ft.**

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

45
South
1/4-1/2
0.298 mi.
1575 ft.

BERKELEY LAND COMPANY
23555 SAKLAN RD
HAYWARD, CA 94545

LUST
Alameda County CS
HIST CORTESE

S103472257
N/A

Relative:
Lower

LUST:

Lead Agency: ALAMEDA COUNTY LOP
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100820
 Global Id: T0600100820
 Latitude: 37.64898
 Longitude: -122.119035
 Status: Completed - Case Closed
 Status Date: 09/23/1996
 Case Worker: Not reported
 RB Case Number: 01-0888
 Local Agency: Not reported
 File Location: All Files are on GeoTracker or in the Local Agency Database
 Local Case Number: RO0001072
 Potential Media Affect: Other Groundwater (uses other than drinking water)
 Potential Contaminants of Concern: Diesel
 Site History: Not reported

Actual:
36 ft.

LUST:

Global Id: T0600100820
 Contact Type: Regional Board Caseworker
 Contact Name: Regional Water Board
 Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
 Address: 1515 CLAY ST SUITE 1400
 City: OAKLAND
 Email: Not reported
 Phone Number: Not reported

LUST:

Global Id: T0600100820
 Action Type: Other
 Date: 06/01/1988
 Action: Leak Reported

Global Id: T0600100820
 Action Type: REMEDIATION
 Date: 09/09/9999
 Action: Free Product Removal

Global Id: T0600100820
 Action Type: ENFORCEMENT
 Date: 06/05/1996
 Action: LOP Case Closure Summary to RB

LUST:

Global Id: T0600100820
 Status: Completed - Case Closed
 Status Date: 09/23/1996

Global Id: T0600100820
 Status: Open - Case Begin Date
 Status Date: 06/01/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BERKELEY LAND COMPANY (Continued)

S103472257

LUST REG 2:

Region: 2
Facility Id: 01-0888
Facility Status: Case Closed
Case Number: 3734
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: 5/1/1990
Preliminary Site Assessment Began: 8/17/1993
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status: Case Closed
Record Id: RO0001072
PE: 5602
Facility Status: Case Closed
Latitude: 37.64890904
Longitude: -122.11868145

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0888

46
SSW
1/4-1/2
0.299 mi.
1578 ft.

**GEO-CON INC.
1764 NATIONAL AVE
HAYWARD, CA 94545**

**LUST S101580260
SWEEPS UST N/A
CA FID UST
HIST CORTESE**

**Relative:
Lower**

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101751
Global Id: T0600101751
Latitude: 37.649045
Longitude: -122.121293
Status: Completed - Case Closed
Status Date: 11/23/2004
Case Worker: DMG
RB Case Number: 01-1888
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-1888
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:

Global Id: T0600101751

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEO-CON INC. (Continued)

S101580260

Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101751
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101751
Action Type: Other
Date: 05/22/1992
Action: Leak Discovery

Global Id: T0600101751
Action Type: ENFORCEMENT
Date: 11/13/2004
Action: Referral to Regional Board

Global Id: T0600101751
Action Type: Other
Date: 05/22/1992
Action: Leak Stopped

Global Id: T0600101751
Action Type: ENFORCEMENT
Date: 01/27/2005
Action: Closure/No Further Action Letter

Global Id: T0600101751
Action Type: Other
Date: 09/04/1992
Action: Leak Reported

LUST:

Global Id: T0600101751
Status: Completed - Case Closed
Status Date: 11/23/2004

Global Id: T0600101751
Status: Open - Case Begin Date
Status Date: 05/22/1992

Global Id: T0600101751
Status: Open - Site Assessment
Status Date: 08/30/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEO-CON INC. (Continued)

S101580260

LUST REG 2:

Region: 2
Facility Id: 01-1888
Facility Status: Leak being confirmed
Case Number: 01-1888
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/30/1996
Oversight Program: LUST
Prelim. Site Assessment Wokplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Not reported
Comp Number: 1159
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001159-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: PETROLEUM
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 1

CA FID UST:

Facility ID: 01002304
Regulated By: UTKNI
Regulated ID: 000685200
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5108872002
Mail To: Not reported
Mailing Address: 1211 NEWELL AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEO-CON INC. (Continued)

S101580260

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1888

J47
East
1/4-1/2
0.308 mi.
1625 ft.

ADOLPH P SCHUMAN MARITAL TRUST
23958 HESPERIAN BLVD
HAYWARD, CA 94541

DEED S112873526
HAZNET N/A

Site 1 of 8 in cluster J

Relative:
Higher

DEED:
Envirostor ID: SL20273891
Area: Not reported
Sub Area: Not reported
Site Type: SLIC
Status: COMPLETED - CASE CLOSED
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 06/28/2002

Actual:
52 ft.

HAZNET:
envid: S112873526
Year: 1995
GEPaid: CAC001200776
Contact: TRUST
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 400 SANSOME ST
Mailing City,St,Zip: SAN FRANCISCO, CA 941110000
Gen County: Not reported
TSD EPA ID: CAL000027741
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 2.5284
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

J48
East
1/4-1/2
0.310 mi.
1636 ft.

AIRPORT PLAZA
23958 HESPERIAN BOULEVARD
HAYWARD, CA 94541

SLIC S100935981
EMI N/A

Site 2 of 8 in cluster J

Relative:
Higher

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 12/19/2001
Global Id: SL20273891
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.65385
Longitude: -122.109563
Case Type: Cleanup Program Site

Actual:
52 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIRPORT PLAZA (Continued)

S100935981

Case Worker: UUU
Local Agency: Not reported
RB Case Number: 01S0413
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

EMI:

Year: 1990
County Code: 1
Air Basin: SF
Facility ID: 4386
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995
County Code: 1
Air Basin: SF
Facility ID: 4386
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

J49
East
1/4-1/2
0.310 mi.
1636 ft.

AIRPORT PLAZA
23958 HESPERIAN BOULEVARD
HAYWARD, CA

SLIC S101641372
N/A

Site 3 of 8 in cluster J

Relative:
Higher

SLIC REG 2:
Region: 2
Facility ID: 01S0493
Facility Status: Case Closed
Date Closed: Not reported
Local Case #: Not reported

Actual:
52 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIRPORT PLAZA (Continued)

S101641372

How Discovered: DVA
 Leak Cause: Not reported
 Leak Source: Not reported
 Date Confirmed: Not reported
 Date Prelim Site Assmnt Workplan Submitted: Not reported
 Date Preliminary Site Assessment Began: Not reported
 Date Pollution Characterization Began: Not reported
 Date Remediation Plan Submitted: Not reported
 Date Remedial Action Underway: Not reported
 Date Post Remedial Action Monitoring Began: Not reported

J50
East
1/4-1/2
0.310 mi.
1636 ft.

AIRPORT PLAZA PROPERTY
23956-58 HESPERIAN BLVD
HAYWARD, CA 94541

Alameda County CS

S109926673
N/A

Site 4 of 8 in cluster J

Relative:
Higher

Alameda County CS:

Status: 11
 Record Id: RO0002801

Actual:
52 ft.

PE: 5502
 Facility Status: Not reported
 Latitude: 37.65333894
 Longitude: -122.11022831

J51
East
1/4-1/2
0.321 mi.
1694 ft.

EXXON R/S 7-0218
23990 HESPERIAN BLVD
HAYWARD, CA 94541

Alameda County CS
SWEEPS UST
CA FID UST
HAZNET

S101580161
N/A

Site 5 of 8 in cluster J

Relative:
Higher

Alameda County CS:

Status: Pollution Characterization
 Record Id: RO0003188

Actual:
52 ft.

PE: 5602
 Facility Status: Pollution Characterization
 Latitude: Not reported
 Longitude: Not reported

SWEEPS UST:

Status: Active
 Comp Number: 16129
 Number: 1
 Board Of Equalization: 44-000217
 Referral Date: 07-08-93
 Action Date: 07-08-93
 Created Date: 02-29-88
 Owner Tank Id: 4
 SWRCB Tank Id: 01-003-016129-000001
 Tank Status: A
 Capacity: 10000
 Active Date: 10-20-92
 Tank Use: M.V. FUEL
 STG: P
 Content: REG UNLEADED
 Number Of Tanks: 5

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON R/S 7-0218 (Continued)

S101580161

Status: Active
Comp Number: 16129
Number: 1
Board Of Equalization: 44-000217
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 01-003-016129-000002
Tank Status: A
Capacity: 10000
Active Date: 10-20-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 16129
Number: 1
Board Of Equalization: 44-000217
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 01-003-016129-000003
Tank Status: A
Capacity: 8000
Active Date: 10-20-92
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 16129
Number: 1
Board Of Equalization: 44-000217
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 01-003-016129-000004
Tank Status: A
Capacity: 12000
Active Date: 10-21-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 16129
Number: 1
Board Of Equalization: 44-000217
Referral Date: 07-08-93
Action Date: 07-08-93

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON R/S 7-0218 (Continued)

S101580161

Created Date: 02-29-88
Owner Tank Id: #5
SWRCB Tank Id: 01-003-016129-000005
Tank Status: A
Capacity: 550
Active Date: 10-21-92
Tank Use: PETROLEUM
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 01001575
Regulated By: UTNKA
Regulated ID: 00016129
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 4550 DACOMA
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94541
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HAZNET:

envid: S101580161
Year: 2015
GEPaid: CAC002823195
Contact: FABIO SILVA
Telephone: 8059298944
Mailing Name: Not reported
Mailing Address: 23990 HESPERIAN BLVD.
Mailing City,St,Zip: HAYWARD, CA 94541
Gen County: Alameda
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery
(H010-H129) Or (H131-H135)
Tons: 0.27105
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Alameda

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

J52 **WINTON VALERO**
East **23990 HESPERIAN BOULEVARD**
1/4-1/2 **HAYWARD, CA 94541**
0.321 mi.
1694 ft. **Site 6 of 8 in cluster J**

LUST **S103177022**
N/A

Relative:
Higher

LUST:

Actual:
52 ft.

Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000007782
Global Id: T10000007782
Latitude: 37.6534394881183
Longitude: -122.1101488626
Status: Open - Site Assessment
Status Date: 10/14/2015
Case Worker: KEN
RB Case Number: Not reported
Local Agency: ALAMEDA COUNTY LOP
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0003188
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Diesel, Gasoline
Site History:

Site is an active fueling station having four underground storage tanks (USTs) and a two bay repair facility. In 2015, the automobile repair facility was removed and the site renovated to include a convenience store and updated fuel delivery system (fuel dispensers and underground fuel delivery piping) while utilizing the four existing USTs. During the station modifications and street widening project, soil contamination was discovered in the dispenser area. A soil and groundwater investigation consisting of advancing five soil bores was performed on February 2, 2016. Soil concentrations of total petroleum hydrocarbons (TPH) as gasoline (TPHg) were reported at up to 590 milligrams per kilogram (mg/kg) and TPH as diesel (TPHd) concentrations were up to 180 mg/kg. Benzene, toluene, ethylbenzene, and xylenes (collectively BTEX) soil concentrations were reported up to 0.0028, ND<0.40, 1.7, and 0.0017 mg/kg, respectively. Methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA) soil concentrations were reported at up to ND<0.40 and 1.5 mg/kg, respectively. Grab groundwater (GGW) concentrations were reported up to 1,200 micrograms per liter (ug/L) for TPHg and 170 ug/L for TPHd. Benzene was reported in one GGW sample, HP4-W1, at a concentration of 0.37 ug/L and concentrations of TEX were reported at concentrations of 0.33, 0.96, and 0.89 ug/L, respectively. MTBE was reported in three GGW samples up to 3.9 ug/L and TBA was reported in two samples at 15 and 17 ug/L. Naphthalene was reported in two samples at 1.2 and 1.4 ug/L in HP1-W1 and HP4-W1, respectively.

LUST:

Global Id: T10000007782
Contact Type: Local Agency Caseworker
Contact Name: KEITH NOWELL
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 Harbor Bay Parkway
City: ALAMEDA
Email: keith.nowell@acgov.org
Phone Number: 5105676764

Global Id: T10000007782
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WINTON VALERO (Continued)

S103177022

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T10000007782
Action Type: RESPONSE
Date: 11/18/2015
Action: Well Destruction Report

Global Id: T10000007782
Action Type: RESPONSE
Date: 07/11/2016
Action: Tank Removal Report / UST Sampling Report

Global Id: T10000007782
Action Type: RESPONSE
Date: 12/18/2015
Action: Correspondence

Global Id: T10000007782
Action Type: RESPONSE
Date: 03/04/2016
Action: Soil and Water Investigation Report

Global Id: T10000007782
Action Type: RESPONSE
Date: 07/24/2017
Action: Other Workplan

Global Id: T10000007782
Action Type: RESPONSE
Date: 10/28/2015
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000007782
Action Type: RESPONSE
Date: 05/12/2016
Action: Request for Closure - Regulator Responded

Global Id: T10000007782
Action Type: RESPONSE
Date: 07/23/2017
Action: Request for Closure - Regulator Responded

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 12/04/2015
Action: Staff Letter - #20151204

Global Id: T10000007782
Action Type: REMEDIATION
Date: 07/31/2015
Action: Excavation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WINTON VALERO (Continued)

S103177022

Global Id: T10000007782
Action Type: RESPONSE
Date: 07/23/2017
Action: Request for Closure - Regulator Responded

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 11/17/2015
Action: Technical Correspondence / Assistance / Other - #20151117

Global Id: T10000007782
Action Type: Other
Date: 07/31/2015
Action: Leak Discovery

Global Id: T10000007782
Action Type: Other
Date: 07/31/2015
Action: Leak Reported

Global Id: T10000007782
Action Type: RESPONSE
Date: 07/11/2016
Action: Interim Remedial Action Report

Global Id: T10000007782
Action Type: RESPONSE
Date: 12/18/2015
Action: Soil and Water Investigation Workplan

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 05/23/2017
Action: Staff Letter - #20170523

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 10/13/2015
Action: Unauthorized Release Form - #20151013

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 10/23/2015
Action: Staff Letter - #20151023

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 08/24/2017
Action: Email Correspondence - #20170824

Global Id: T10000007782
Action Type: ENFORCEMENT
Date: 06/15/2017
Action: Technical Correspondence / Assistance / Other - #20170615

Global Id: T10000007782
Action Type: ENFORCEMENT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WINTON VALERO (Continued)

S103177022

Date: 08/24/2017
Action: Staff Letter - #20170824

Global Id: T1000007782
Action Type: ENFORCEMENT
Date: 11/08/2000
Action: Staff Letter - #20001108

Global Id: T1000007782
Action Type: RESPONSE
Date: 11/20/2015
Action: Electronic Reporting Submittal Due

Global Id: T1000007782
Action Type: Other
Date: 07/31/2015
Action: Leak Began

Global Id: T1000007782
Action Type: Other
Date: 07/31/2015
Action: Leak Stopped

Global Id: T1000007782
Action Type: RESPONSE
Date: 11/18/2015
Action: Tank Removal Report / UST Sampling Report

Global Id: T1000007782
Action Type: RESPONSE
Date: 08/12/2016
Action: Soil and Water Investigation Workplan

Global Id: T1000007782
Action Type: RESPONSE
Date: 12/16/2015
Action: Correspondence

Global Id: T1000007782
Action Type: RESPONSE
Date: 11/20/2015
Action: Email Correspondence

Global Id: T1000007782
Action Type: RESPONSE
Date: 08/28/2017
Action: Email Correspondence

Global Id: T1000007782
Action Type: RESPONSE
Date: 06/30/2017
Action: Electronic Reporting Submittal Due

Global Id: T1000007782
Action Type: ENFORCEMENT
Date: 10/20/2015
Action: Notice of Responsibility - #20151020

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WINTON VALERO (Continued)

S103177022

Global Id: T10000007782
Action Type: RESPONSE
Date: 11/20/2015
Action: Electronic Reporting Submittal Due

Global Id: T10000007782
Action Type: RESPONSE
Date: 07/24/2017
Action: Email Correspondence

LUST:

Global Id: T10000007782
Status: Open - Case Begin Date
Status Date: 07/31/2015

Global Id: T10000007782
Status: Open - Site Assessment
Status Date: 10/14/2015

Global Id: T10000007782
Status: Open - Site Assessment
Status Date: 10/14/2015

Global Id: T10000007782
Status: Open - Verification Monitoring
Status Date: 10/14/2015

LUST REG 2:

Region: 2
Facility Id: 01-1457
Facility Status: Case Closed
Case Number: 01-1457
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 4/19/1989
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 6/30/1988
Pollution Characterization Began: 1/30/1989
Pollution Remediation Plan Submitted: 7/11/1990
Date Remediation Action Underway: 1/16/2001
Date Post Remedial Action Monitoring Began: Not reported

J53
East
1/4-1/2
0.321 mi.
1694 ft.
EXXON TEXACO
23990 HESPERIAN
HAYWARD, CA 94541
Site 7 of 8 in cluster J

LUST **S103644984**
HIST CORTESE **N/A**

Relative:
Higher

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101345
Global Id: T0600101345
Latitude: 37.653472

Actual:
52 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON TEXACO (Continued)

S103644984

Longitude: -122.110032
Status: Completed - Case Closed
Status Date: 01/09/2002
Case Worker: DMG
RB Case Number: 01-1457
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-1457
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600101345
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101345
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101345
Action Type: ENFORCEMENT
Date: 11/08/2000
Action: File Review - Closure

Global Id: T0600101345
Action Type: Other
Date: 03/07/1989
Action: Leak Stopped

Global Id: T0600101345
Action Type: Other
Date: 03/07/1989
Action: Leak Reported

Global Id: T0600101345
Action Type: Other
Date: 03/07/1989
Action: Leak Discovery

LUST:

Global Id: T0600101345
Status: Completed - Case Closed
Status Date: 01/09/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXXON TEXACO (Continued)

S103644984

Global Id: T0600101345
Status: Completed - Case Closed
Status Date: 01/09/2002

Global Id: T0600101345
Status: Open - Case Begin Date
Status Date: 06/30/1988

Global Id: T0600101345
Status: Open - Remediation
Status Date: 07/11/1990

Global Id: T0600101345
Status: Open - Remediation
Status Date: 01/16/2001

Global Id: T0600101345
Status: Open - Reopen Case
Status Date: 01/15/2001

Global Id: T0600101345
Status: Open - Site Assessment
Status Date: 06/30/1988

Global Id: T0600101345
Status: Open - Site Assessment
Status Date: 01/30/1989

Global Id: T0600101345
Status: Open - Site Assessment
Status Date: 04/19/1989

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1457

54
WSW
1/4-1/2
0.326 mi.
1719 ft.

W & W TRANSPORT INC
1680 W WINTON AVE
HAYWARD, CA 94545

LUST S101580433
SWEEPS UST N/A
CA FID UST
HAZNET

Relative:
Lower

LUST:
Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600192780
Global Id: T0600192780
Latitude: 37.652772
Longitude: -122.124748
Status: Completed - Case Closed
Status Date: 11/16/2000
Case Worker: DMG
RB Case Number: 01-2516
Local Agency: HAYWARD, CITY OF

Actual:
30 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

W & W TRANSPORT INC (Continued)

S101580433

File Location: Not reported
Local Case Number: 01-2516
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:

Global Id: T0600192780
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600192780
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600192780
Action Type: Other
Date: 10/30/2000
Action: Leak Reported

LUST:

Global Id: T0600192780
Status: Completed - Case Closed
Status Date: 11/16/2000

Global Id: T0600192780
Status: Open - Case Begin Date
Status Date: 10/30/2000

Global Id: T0600192780
Status: Open - Site Assessment
Status Date: 10/30/2000

LUST REG 2:

Region: 2
Facility Id: 01-2516
Facility Status: Case Closed
Case Number: 01-2516
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 10/30/2000
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

W & W TRANSPORT INC (Continued)

S101580433

Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Active
Comp Number: 623
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 03-12-92
Owner Tank Id: 1
SWRCB Tank Id: 01-003-000623-099501
Tank Status: A
Capacity: 12000
Active Date: 03-12-92
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 1

CA FID UST:

Facility ID: 01002855
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5107822323
Mail To: Not reported
Mailing Address: 1844 W WINTON AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HAZNET:

envid: S101580433
Year: 2016
GEPaid: CAL000326617
Contact: BILL KAMBIC/KATEMCSHERRY
Telephone: 5105813300
Mailing Name: Not reported
Mailing Address: 1451 DANVILLE BLVD-SUITE 105
Mailing City,St,Zip: ALAMO, CA 945070000
Gen County: Alameda
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

W & W TRANSPORT INC (Continued)

S101580433

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.375
Cat Decode: Waste oil and mixed oil
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: Alameda

**K55
SW
1/4-1/2
0.333 mi.
1760 ft.**

**ROBERT MOORE PROPERTY
18971943 NATIONAL AVE
HAYWARD, CA 94545**

**LUST S105024051
HIST UST N/A
HIST CORTESE**

Site 1 of 2 in cluster K

**Relative:
Lower**

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101015
Global Id: T0600101015
Latitude: 37.64998
Longitude: -122.123126
Status: Completed - Case Closed
Status Date: 05/06/1999
Case Worker: DMG
RB Case Number: 01-1102
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-1102
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

**Actual:
34 ft.**

LUST:

Global Id: T0600101015
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101015
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101015
Action Type: Other
Date: 08/13/1990
Action: Leak Discovery

Global Id: T0600101015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT MOORE PROPERTY (Continued)

S105024051

Action Type: Other
Date: 08/13/1990
Action: Leak Stopped

Global Id: T0600101015
Action Type: Other
Date: 08/13/1990
Action: Leak Reported

LUST:

Global Id: T0600101015
Status: Completed - Case Closed
Status Date: 05/06/1999

Global Id: T0600101015
Status: Open - Case Begin Date
Status Date: 08/13/1990

Global Id: T0600101015
Status: Open - Site Assessment
Status Date: 08/30/1996

LUST REG 2:

Region: 2
Facility Id: 01-1102
Facility Status: Case Closed
Case Number: 01-1102
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/30/1996
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST UST:

File Number: 000362C4
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000362C4.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT MOORE PROPERTY (Continued)

S105024051

Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1102

**J56
ESE
1/4-1/2
0.340 mi.
1793 ft.**

**FARRER PROPERTY
994 WINTON AVE W
HAYWARD, CA 94545**

**LUST S101306595
HIST CORTESE N/A**

Site 8 of 8 in cluster J

**Relative:
Higher**

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100565
Global Id: T0600100565
Latitude: 37.653016964
Longitude: -122.109736
Status: Completed - Case Closed
Status Date: 11/08/2000
Case Worker: DMG
RB Case Number: 01-0613
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-0613
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

**Actual:
52 ft.**

LUST:

Global Id: T0600100565
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600100565
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FARRER PROPERTY (Continued)

S101306595

LUST:

Global Id: T0600100565
Action Type: Other
Date: 10/30/1987
Action: Leak Stopped

Global Id: T0600100565
Action Type: Other
Date: 10/30/1987
Action: Leak Reported

Global Id: T0600100565
Action Type: Other
Date: 10/30/1987
Action: Leak Discovery

LUST:

Global Id: T0600100565
Status: Completed - Case Closed
Status Date: 11/08/2000

Global Id: T0600100565
Status: Open - Case Begin Date
Status Date: 10/30/1987

LUST REG 2:

Region: 2
Facility Id: 01-0613
Facility Status: Case Closed
Case Number: 01-0613
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0613

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

57
SW
1/4-1/2
0.363 mi.
1918 ft.

REDCO
1975 NATIONAL AVE
HAYWARD, CA 94545

RCRA-SQG 1000174709
SWEEPS UST CAD981170954
FINDS
ECHO
HIST CORTESE

Relative:
Lower

RCRA-SQG:

Actual:
30 ft.

Date form received by agency: 09/01/1996
Facility name: REDCO
Facility address: 1975 NATIONAL AVE
HAYWARD, CA 94545
EPA ID: CAD981170954
Mailing address: NATIONAL AVE
HAYWARD, CA 94545
Contact: Not reported
Contact address: Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: REDCO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDCO (Continued)

1000174709

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

SWEEPS UST:

Status: Not reported
Comp Number: 9613
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-009613-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

FINDS:

Registry ID: 110002681438

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000174709
Registry ID: 110002681438
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002681438>

HIST CORTESE:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDCO (Continued)

1000174709

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1226

K58
SW
1/4-1/2
0.363 mi.
1919 ft.

VARN PRODUCTS CO. INC
1942 NATIONAL AVE
HAYWARD, CA 94545
Site 2 of 2 in cluster K

LUST **S101623738**
SWEEPS UST **N/A**
CA FID UST
EMI
HIST CORTESE

Relative:
Lower

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101507
Global Id: T0600101507
Latitude: 37.649273578
Longitude: -122.12293
Status: Completed - Case Closed
Status Date: 04/25/2005
Case Worker: DMG
RB Case Number: 01-1632
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-1632
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Actual:
33 ft.

LUST:

Global Id: T0600101507
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101507
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101507
Action Type: Other
Date: 10/21/1991
Action: Leak Discovery

Global Id: T0600101507
Action Type: RESPONSE
Date: 10/01/2002
Action: Request for Closure

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

Global Id: T0600101507
Action Type: RESPONSE
Date: 10/15/2002
Action: Request for Closure

Global Id: T0600101507
Action Type: Other
Date: 10/21/1991
Action: Leak Stopped

Global Id: T0600101507
Action Type: Other
Date: 10/21/1991
Action: Leak Reported

LUST:

Global Id: T0600101507
Status: Completed - Case Closed
Status Date: 04/25/2005

Global Id: T0600101507
Status: Open - Case Begin Date
Status Date: 07/19/1991

Global Id: T0600101507
Status: Open - Site Assessment
Status Date: 07/19/1991

Global Id: T0600101507
Status: Open - Site Assessment
Status Date: 08/22/1991

Global Id: T0600101507
Status: Open - Site Assessment
Status Date: 11/20/1991

LUST REG 2:

Region: 2
Facility Id: 01-1632
Facility Status: Preliminary site assessment underway
Case Number: 01-1632
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 7/19/1991
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: 8/22/1991
Preliminary Site Assessment Began: 11/20/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 8

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000002
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000003
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000004
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000005
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000006
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000007
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1234
Number: Not reported
Board Of Equalization: 44-000785
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-001234-000008
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 01001750
Regulated By: UTKNI
Regulated ID: 00001234
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4157838000
Mail To: Not reported
Mailing Address: 194222 NATIONAL AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

EMI:

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.185
Reactive Organic Gases Tons/Yr: 1.1043622
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.185
Reactive Organic Gases Tons/Yr: 1.1043622
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.185
Reactive Organic Gases Tons/Yr: 1.1043622
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.496
Reactive Organic Gases Tons/Yr: 0.453988
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 17690

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.496
Reactive Organic Gases Tons/Yr: 0.453988
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2011
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.496
Reactive Organic Gases Tons/Yr: 0.453988
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.496
Reactive Organic Gases Tons/Yr: 0.453988
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.405

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VARN PRODUCTS CO. INC (Continued)

S101623738

Reactive Organic Gases Tons/Yr: 0.3762622
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.404572943
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 17690
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.40457291
Reactive Organic Gases Tons/Yr: 0.40457291
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1632

L59 SPECIALTY SUPPLY COMPANY
WSW 1770 WINTON AVE W
1/4-1/2 HAYWARD, CA 94545
0.370 mi.
1954 ft. Site 1 of 2 in cluster L

LUST S105034139
N/A

Relative: LUST REG 2:
Lower Region: 2
Facility Id: 01-1897
Actual: Facility Status: Leak being confirmed
29 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPECIALTY SUPPLY COMPANY (Continued)

S105034139

Case Number: 01-1897
How Discovered: OM
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 1/25/1996
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

L60
WSW
1/4-1/2
0.370 mi.
1954 ft.

SPECIALTY SUPPLY COMPANY
1770 WINTON
HAYWARD, CA 94545

HIST UST **U001597173**
HIST CORTESE **N/A**

Site 2 of 2 in cluster L

Relative:
Lower

HIST UST:

File Number: 000363B2
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000363B2.pdf>
Region: STATE
Facility ID: 00000023600
Facility Type: Gas Station
Other Type: Not reported
Contact Name: DEALER
Telephone: 4153577044
Owner Name: TED RUSLEY
Owner Address: 1770 W. WINTON AVE.
Owner City,St,Zip: HAYWARD, CA 94545
Total Tanks: 0002

Actual:
29 ft.

Tank Num: 001
Container Num: 2
Year Installed: 1982
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 1
Year Installed: 1982
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 3/16
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPECIALTY SUPPLY COMPANY (Continued)

U001597173

Reg Id: 01-1897

M61
North
1/4-1/2
0.371 mi.
1961 ft.

HAYWARD JET CENTER
21889 SKYWEST DR
HAYWARD, CA 94544
Site 1 of 2 in cluster M

LUST U003776544
N/A

Relative:
Lower

LUST REG 2:
Region: 2
Facility Id: 01-2536
Facility Status: Preliminary site assessment underway
Case Number: 01-2536
How Discovered: FI
Leak Cause: Other Cause
Leak Source: Piping
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 12/4/2001
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

M62
North
1/4-1/2
0.371 mi.
1961 ft.

FORMER HAYWARD JET CENTER
21889 SKYWEST DR
HAYWARD, CA 94541
Site 2 of 2 in cluster M

LUST U001596980
HIST UST N/A

Relative:
Lower

LUST:
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060014747
Global Id: T060014747
Latitude: 37.6599850580616
Longitude: -122.118275463581
Status: Completed - Case Closed
Status Date: 12/05/2013
Case Worker: UUU
RB Case Number: 01-2536
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: TT01-2536
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Aviation
Site History: THE CORRECT ADDRESS FOR THIS SITE IS 21889 SKYWEST DRIVE, HAYWARD. SOME REPORTS AND PARTS OF REPORTS SUCH AS BORING LOGS, MAPS AND SITE PLANS HAVE SHOWN AN ADDRESS OF 21778 SKYWEST DRIVE OR 12778 SKYWEST DRIVE. PLEASE MAKE A NOTE OF THIS: CORRECT ADDRESS IS 21889 SKYWEST DRIVE. RP has changed from the original CAREER AVIATION DBA HAYWARD JET CENTER to VOLO HOLDINGS HAYWARD LLC to HAYWARD FBO LLC to AIRPORT PROPERTY PARTNERS LLC

LUST:

Global Id: T060014747

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER HAYWARD JET CENTER (Continued)

U001596980

Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T060014747
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T060014747
Action Type: ENFORCEMENT
Date: 12/05/2013
Action: Closure/No Further Action Letter

Global Id: T060014747
Action Type: Other
Date: 04/10/2001
Action: Leak Stopped

Global Id: T060014747
Action Type: REMEDIATION
Date: 04/10/2001
Action: Pump & Treat (P&T) Groundwater

Global Id: T060014747
Action Type: Other
Date: 04/10/2001
Action: Leak Reported

Global Id: T060014747
Action Type: RESPONSE
Date: 02/28/2013
Action: Request for Closure - Regulator Responded

LUST:

Global Id: T060014747
Status: Completed - Case Closed
Status Date: 12/05/2013

Global Id: T060014747
Status: Open - Case Begin Date
Status Date: 04/10/2001

Global Id: T060014747
Status: Open - Eligible for Closure
Status Date: 02/26/2013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER HAYWARD JET CENTER (Continued)

U001596980

Global Id: T060014747
Status: Open - Remediation
Status Date: 04/10/2001

Global Id: T060014747
Status: Open - Remediation
Status Date: 12/01/2006

Global Id: T060014747
Status: Open - Site Assessment
Status Date: 04/30/2001

Global Id: T060014747
Status: Open - Site Assessment
Status Date: 09/12/2001

Global Id: T060014747
Status: Open - Site Assessment
Status Date: 08/17/2006

Global Id: T060014747
Status: Open - Verification Monitoring
Status Date: 01/24/2002

HIST UST:

File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000042129
Facility Type: Other
Other Type: AVIATION
Contact Name: JERRY JASON
Telephone: 4157854501
Owner Name: CAREER AVIATION ACADEMY, INC.
Owner Address: 21889 SKYWEST DR.
Owner City,St,Zip: HAYWARD, CA 94541
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 001
Container Num: 1
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER HAYWARD JET CENTER (Continued)

U001596980

Tank Num: 002
Container Num: 2
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: 1983
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1983
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

63
South
1/4-1/2
0.380 mi.
2004 ft.

TRIDENT TRUCK LINE INC
23724 SAKLAN RD
HAYWARD, CA 94545

Relative:
Lower

Actual:
34 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: TRIDENT TRUCK LINE INC

RCRA-SQG 1000187298
ENVIROSTOR CAD982483877
LUST
Alameda County CS
HIST UST
CA FID UST
FINDS
ECHO
HIST CORTESE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRIDENT TRUCK LINE INC (Continued)

1000187298

Facility address: 23724 SAKLAN RD
HAYWARD, CA 94545
EPA ID: CAD982483877
Mailing address: PO BOX 4030
HAYWARD, CA 94540
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: SENNA BOB
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRIDENT TRUCK LINE INC (Continued)

1000187298

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/12/1990
Site name: TRIDENT TRUCK LINE INC
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:

Facility ID: 1470002
Status: Refer: RWQCB
Status Date: 06/27/1994
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.64757
Longitude: -122.1185
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED OIL CONTAINING WASTE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRIDENT TRUCK LINE INC (Continued)

1000187298

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:

Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100600
Global Id: T0600100600
Latitude: 37.6477474674036
Longitude: -122.118168683992
Status: Completed - Case Closed
Status Date: 07/31/1992
Case Worker: Not reported
RB Case Number: NA
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0002821
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Xylene, Toluene, Benzene, Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:

Global Id: T0600100600
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100600
Action Type: Other
Date: 07/06/1990
Action: Leak Discovery

Global Id: T0600100600
Action Type: Other
Date: 07/23/1990
Action: Leak Reported

LUST:

Global Id: T0600100600
Status: Completed - Case Closed
Status Date: 07/31/1992

Global Id: T0600100600
Status: Open - Case Begin Date
Status Date: 03/23/1990

Alameda County CS:

Status: Case Closed
Record Id: RO0002821
PE: 5602

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRIDENT TRUCK LINE INC (Continued)

1000187298

Facility Status: Case Closed
Latitude: Not reported
Longitude: Not reported

HIST UST:

File Number: 000363FE
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000363FE.pdf>
Region: STATE
Facility ID: 00000050254
Facility Type: Other
Other Type: TRUCK LINES
Contact Name: MANUEL SENNA
Telephone: 4157832881
Owner Name: TRIDENT TRUCK LINE, INC.
Owner Address: 23724 SAKLAN ROAD
Owner City,St,Zip: HAYWARD, CA 94545
Total Tanks: 0002

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

[Click here for Geo Tracker PDF:](#)

CA FID UST:

Facility ID: 01002040
Regulated By: UTNKA
Regulated ID: 00050254
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4157832881
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TRIDENT TRUCK LINE INC (Continued)

1000187298

FINDS:

Registry ID: 110002826595

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000187298
 Registry ID: 110002826595
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002826595>

HIST CORTESE:

Region: CORTESE
 Facility County Code: 1
 Reg By: LTNKA
 Reg Id: 01-1550

64
SSW
1/4-1/2
0.384 mi.
2027 ft.

MR-ONE AUTO BODY
23520 CLAWITER ROAD
HAYWARD, CA 94545

LUST **S101306485**
EMI **N/A**
HIST CORTESE

Relative:
Lower

LUST:

Lead Agency: HAYWARD, CITY OF
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101053
 Global Id: T0600101053
 Latitude: 37.64783
 Longitude: -122.119622
 Status: Completed - Case Closed
 Status Date: 07/02/1997
 Case Worker: DMG
 RB Case Number: 01-1143
 Local Agency: HAYWARD, CITY OF
 File Location: Not reported
 Local Case Number: 01-1143
 Potential Media Affect: Other Groundwater (uses other than drinking water)
 Potential Contaminants of Concern: Gasoline
 Site History: Not reported

LUST:

Global Id: T0600101053
 Contact Type: Local Agency Caseworker
 Contact Name: DANILO M. GALANG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MR-ONE AUTO BODY (Continued)

S101306485

Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101053
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101053
Action Type: Other
Date: 12/06/1988
Action: Leak Stopped

Global Id: T0600101053
Action Type: Other
Date: 02/09/1989
Action: Leak Reported

Global Id: T0600101053
Action Type: Other
Date: 12/06/1988
Action: Leak Discovery

LUST:

Global Id: T0600101053
Status: Completed - Case Closed
Status Date: 07/02/1997

Global Id: T0600101053
Status: Open - Case Begin Date
Status Date: 12/06/1988

Global Id: T0600101053
Status: Open - Remediation
Status Date: 11/03/1992

Global Id: T0600101053
Status: Open - Site Assessment
Status Date: 03/31/1989

Global Id: T0600101053
Status: Open - Site Assessment
Status Date: 07/21/1989

LUST REG 2:

Region: 2
Facility Id: 01-1143

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MR-ONE AUTO BODY (Continued)

S101306485

Facility Status: Case Closed
Case Number: 01-1143
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/31/1989
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 7/21/1989
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: 11/3/1992
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

EMI:

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 21939
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.407
Reactive Organic Gases Tons/Yr: 0.3531098
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smaller Tons/Yr: 0

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 21939
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.407
Reactive Organic Gases Tons/Yr: 0.3531098
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smaller Tons/Yr: 0

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 21939
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MR-ONE AUTO BODY (Continued)

S101306485

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.406391016
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 21939
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.48034646763
Reactive Organic Gases Tons/Yr: 0.406391
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1143

65
NNE
1/4-1/2
0.392 mi.
2071 ft.

HOME DEPOT
21787 HESPERIAN BLVD
HAYWARD, CA 94541

LUST S105194668
EMI N/A

Relative:
Higher

LUST:

Actual:
42 ft.

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600191847
Global Id: T0600191847
Latitude: 37.6606652
Longitude: -122.1151664
Status: Completed - Case Closed
Status Date: 04/13/2001
Case Worker: DMG
RB Case Number: 01-2522
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-2522
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600191847

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOME DEPOT (Continued)

S105194668

Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600191847
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600191847
Action Type: Other
Date: 12/15/2001
Action: Leak Discovery

Global Id: T0600191847
Action Type: Other
Date: 12/15/2001
Action: Leak Stopped

Global Id: T0600191847
Action Type: Other
Date: 02/22/2001
Action: Leak Reported

LUST:

Global Id: T0600191847
Status: Completed - Case Closed
Status Date: 04/13/2001

Global Id: T0600191847
Status: Open - Case Begin Date
Status Date: 02/22/2001

Global Id: T0600191847
Status: Open - Site Assessment
Status Date: 04/12/2001

LUST REG 2:

Region: 2
Facility Id: 01-2522
Facility Status: Case Closed
Case Number: 01-2522
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 4/12/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOME DEPOT (Continued)

S105194668

Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

EMI:

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smaller Tons/Yr: 0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.003
Reactive Organic Gases Tons/Yr: 0.0025101
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0.001
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smaller Tons/Yr: 0

Year: 2005
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .003
Reactive Organic Gases Tons/Yr: .0025101
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: .001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOME DEPOT (Continued)

S105194668

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .002
Reactive Organic Gases Tons/Yr: .0016734
Carbon Monoxide Emissions Tons/Yr: .002
NOX - Oxides of Nitrogen Tons/Yr: .016
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .002
Reactive Organic Gases Tons/Yr: .0016734
Carbon Monoxide Emissions Tons/Yr: .002
NOX - Oxides of Nitrogen Tons/Yr: .016
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .006
Reactive Organic Gases Tons/Yr: .0050202
Carbon Monoxide Emissions Tons/Yr: .005
NOX - Oxides of Nitrogen Tons/Yr: .046
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .001
Part. Matter 10 Micrometers and Smlr Tons/Yr:.000976

Year: 2009
County Code: 1
Air Basin: SF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOME DEPOT (Continued)

S105194668

Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6.000000000000001E-3
Reactive Organic Gases Tons/Yr: 5.020199999999998E-3
Carbon Monoxide Emissions Tons/Yr: 5.000000000000001E-3
NOX - Oxides of Nitrogen Tons/Yr: 4.599999999999999E-2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.001
Part. Matter 10 Micrometers and Smlr Tons/Yr:9.759999999999998E-4

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.700000000000001E-2
Reactive Organic Gases Tons/Yr: 1.422389999999999E-2
Carbon Monoxide Emissions Tons/Yr: 0.014
NOX - Oxides of Nitrogen Tons/Yr: 0.128
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 4.0983606557376999E-3
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.000000000000001E-3

Year: 2011
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.017
Reactive Organic Gases Tons/Yr: 0.0142239
Carbon Monoxide Emissions Tons/Yr: 0.014
NOX - Oxides of Nitrogen Tons/Yr: 0.128
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOME DEPOT (Continued)

S105194668

Total Organic Hydrocarbon Gases Tons/Yr: 0.024
Reactive Organic Gases Tons/Yr: 0.0200808
Carbon Monoxide Emissions Tons/Yr: 0.02
NOX - Oxides of Nitrogen Tons/Yr: 0.181
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.0051229508197
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.005

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.024
Reactive Organic Gases Tons/Yr: 0.0200808
Carbon Monoxide Emissions Tons/Yr: 0.02
NOX - Oxides of Nitrogen Tons/Yr: 0.181
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.005
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.005

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.002904836
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.002409462
NOX - Oxides of Nitrogen Tons/Yr: 0.022284618
SOX - Oxides of Sulphur Tons/Yr: 1.8705e-005
Particulate Matter Tons/Yr: 0.000649389
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000623413

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 13226
Air District Name: BA
SIC Code: 5211
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.002904836
Reactive Organic Gases Tons/Yr: 0.002828118
Carbon Monoxide Emissions Tons/Yr: 0.002409462
NOX - Oxides of Nitrogen Tons/Yr: 0.02228462
SOX - Oxides of Sulphur Tons/Yr: 1.8705e-005
Particulate Matter Tons/Yr: 0.000649389

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOME DEPOT (Continued)

S105194668

Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000623413

N66
West
1/4-1/2
0.404 mi.
2135 ft.

WESTERN DRUMS, INC.
21301 CLOUD WAY
HAYWARD, CA 94545
Site 1 of 3 in cluster N

ENVIROSTOR **S118756467**
N/A

Relative:
Lower

ENVIROSTOR:

Facility ID: 1340114
Status: No Action Required
Status Date: 06/20/2008
Site Code: 200997
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 10.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.65413
Longitude: -122.1267
APN: 432-0114-022, 432-0114-036, 432-0114-037, 432-0114-038, 432-0114-039, 432-0114-039
Past Use: RECYCLING - DRUM
Potential COC: Tetrachloroethylene (PCE)
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

N67
West
1/4-1/2
0.404 mi.
2135 ft.

CONTAINER MANAGEMENT SERVICES,
21301 CLOUD WAY
HAYWARD, CA 94545
Site 2 of 3 in cluster N

ENVIROSTOR **S103641799**
AST **N/A**
EMI
NPDES
WDS

Relative:
Lower

ENVIROSTOR:
Facility ID: 71002621
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.65529
Longitude: -122.1269
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD087210399
Alias Type: EPA Identification Number
Alias Name: 71002621
Alias Type: Envirostor ID Number

Actual:
24 ft.

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/20/1997
Comments: Phase 1 checklist indicates no releases. DTSC follow up confirmed information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Addendum
Completed Date: 03/25/1997
Comments: Phase 1 checklist updated. No releases.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Schedule Revised Date: Not reported

AST:

Certified Unified Program Agencies: Hayward
Owner: CONTAINER MANAGEMENT SERVICES
Total Gallons: 5,300
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

EMI:

Year: 1987
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 11
Reactive Organic Gases Tons/Yr: 10
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1990
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 34
Reactive Organic Gases Tons/Yr: 32
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 12
Reactive Organic Gases Tons/Yr: 12
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1996
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 12
Reactive Organic Gases Tons/Yr: 12
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1997
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 25
Reactive Organic Gases Tons/Yr: 23
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1998
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 53
Reactive Organic Gases Tons/Yr: 50
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1999
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 5412
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 25
Reactive Organic Gases Tons/Yr: 25
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2000
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 5412
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 25
Reactive Organic Gases Tons/Yr: 25
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2001
County Code: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 5412
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 20
Reactive Organic Gases Tons/Yr: 20
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2002
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 20
Reactive Organic Gases Tons/Yr: 20
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 17
Reactive Organic Gases Tons/Yr: 17
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.078
Reactive Organic Gases Tons/Yr: 0.0746952
Carbon Monoxide Emissions Tons/Yr: 0.095
NOX - Oxides of Nitrogen Tons/Yr: 0.381
SOX - Oxides of Sulphur Tons/Yr: 0.001
Particulate Matter Tons/Yr: 0.008
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.004592

Year: 2005
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14.566
Reactive Organic Gases Tons/Yr: 14.3878626
Carbon Monoxide Emissions Tons/Yr: .077
NOX - Oxides of Nitrogen Tons/Yr: .308
SOX - Oxides of Sulphur Tons/Yr: .001
Particulate Matter Tons/Yr: .007
Part. Matter 10 Micrometers and Smlr Tons/Yr:.004018

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 1965
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 9.662
Reactive Organic Gases Tons/Yr: 9.5433584
Carbon Monoxide Emissions Tons/Yr: .07
NOX - Oxides of Nitrogen Tons/Yr: .28
SOX - Oxides of Sulphur Tons/Yr: .001
Particulate Matter Tons/Yr: .006
Part. Matter 10 Micrometers and Smlr Tons/Yr:.003444

Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 15.247
Reactive Organic Gases Tons/Yr: 15.0607799
Carbon Monoxide Emissions Tons/Yr: .073
NOX - Oxides of Nitrogen Tons/Yr: .292
SOX - Oxides of Sulphur Tons/Yr: .001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Particulate Matter Tons/Yr: .006
Part. Matter 10 Micrometers and Smlr Tons/Yr:.003444

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 15.253
Reactive Organic Gases Tons/Yr: 15.0657629
Carbon Monoxide Emissions Tons/Yr: .073
NOX - Oxides of Nitrogen Tons/Yr: .292
SOX - Oxides of Sulphur Tons/Yr: .001
Particulate Matter Tons/Yr: .006
Part. Matter 10 Micrometers and Smlr Tons/Yr:.003444

Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 19.617999999999999
Reactive Organic Gases Tons/Yr: 19.3774742000000002
Carbon Monoxide Emissions Tons/Yr: 8.8999999999999996E-2
NOX - Oxides of Nitrogen Tons/Yr: 0.35599999999999998
SOX - Oxides of Sulphur Tons/Yr: 0.001
Particulate Matter Tons/Yr: 0.0114529616724738
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.006574

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 21.507000000000001
Reactive Organic Gases Tons/Yr: 21.243302499999999
Carbon Monoxide Emissions Tons/Yr: 9.8000000000000004E-2
NOX - Oxides of Nitrogen Tons/Yr: 0.39400000000000002
SOX - Oxides of Sulphur Tons/Yr: 0.001
Particulate Matter Tons/Yr: 0.0139372822299651
Part. Matter 10 Micrometers and Smlr Tons/Yr:8.0000000000000002E-3

Year: 2011
County Code: 1
Air Basin: SF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 17.979
Reactive Organic Gases Tons/Yr: 17.7548433
Carbon Monoxide Emissions Tons/Yr: 0.185
NOX - Oxides of Nitrogen Tons/Yr: 0.743
SOX - Oxides of Sulphur Tons/Yr: 0.003
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 17.979
Reactive Organic Gases Tons/Yr: 17.7548433
Carbon Monoxide Emissions Tons/Yr: 0.185
NOX - Oxides of Nitrogen Tons/Yr: 0.743
SOX - Oxides of Sulphur Tons/Yr: 0.003
Particulate Matter Tons/Yr: 0.02787456446
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.016

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 13.902
Reactive Organic Gases Tons/Yr: 13.7244992
Carbon Monoxide Emissions Tons/Yr: 0.267
NOX - Oxides of Nitrogen Tons/Yr: 1.068
SOX - Oxides of Sulphur Tons/Yr: 0.004
Particulate Matter Tons/Yr: 0.023
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.023

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Total Organic Hydrocarbon Gases Tons/Yr: 23.905884208
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.183384996
NOX - Oxides of Nitrogen Tons/Yr: 0.734750274
SOX - Oxides of Sulphur Tons/Yr: 0.002977374
Particulate Matter Tons/Yr: 0.01590563
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.015808714

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 18772
Air District Name: BA
SIC Code: 3479
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 20.976704761
Reactive Organic Gases Tons/Yr: 13.255762713
Carbon Monoxide Emissions Tons/Yr: 0.178853329
NOX - Oxides of Nitrogen Tons/Yr: 0.7165937
SOX - Oxides of Sulphur Tons/Yr: 0.002903799
Particulate Matter Tons/Yr: 0.015348357
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.015338988

NPDES:

Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 2
Regulatory Measure Id: 336905
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 2 011021344
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 05/09/2008
PROCESSED DATE: 12/14/2007
STATUS CODE NAME: Active
STATUS DATE: 12/14/2007
PLACE SIZE: 8
PLACE SIZE UNIT: Acres
FACILITY CONTACT NAME: Carmelo Portillo
FACILITY CONTACT TITLE: Quality Manager
FACILITY CONTACT PHONE: 510-786-9762
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: cportillo@myerscontainer.com
OPERATOR NAME: Container Management Services

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

OPERATOR ADDRESS: 21301 Cloud Way
OPERATOR CITY: Hayward
OPERATOR STATE: California
OPERATOR ZIP: 94545
OPERATOR CONTACT NAME: Riccilee Keller
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: 503-990-9139
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: rkeller@myerscontainer.com
OPERATOR TYPE: Private Business
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: Oregon
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N
RECEIVING WATER NAME: Sulpher Creek
CERTIFIER NAME: Riccilee Keller
CERTIFIER TITLE: Manager of Sustainability
CERTIFICATION DATE: 03-JUN-16
PRIMARY SIC: 9999-Nonclassifiable Establishments
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 336905
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 011021344
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 12/14/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Container Management Services
Discharge Address:	21301 Cloud Way
Discharge City:	Hayward
Discharge State:	California
Discharge Zip:	94545
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERCIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESCRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES, (Continued)

S103641799

CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

WDS:

Facility ID: San Francisco Bay 011013318
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5107869762
Facility Contact: REYNOLDS SEAN
Agency Name: IMACC CORP
Agency Address: 900 Brookside Dr
Agency City,St,Zip: Richmond 948011309
Agency Contact: REYNOLDS SEAN
Agency Telephone: 5102315307
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

N68
West
1/4-1/2
0.404 mi.
2135 ft.

CONTAINER MANAGEMENT SERVICES
21301 CLOUD WAY
HAYWARD, CA 94545
Site 3 of 3 in cluster N

SEMS-ARCHIVE **1001217294**
RCRA-LQG **CAR000031526**
ICIS
US AIRS
FINDS
ECHO
HAZNET

Relative:
Lower

Actual:
24 ft.

SEMS-ARCHIVE:
Site ID: 904553
EPA ID: CAD983643651
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID: 0904553
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13285100.00000
Person ID: 13003854.00000

Contact Sequence ID: 13290695.00000
Person ID: 13003858.00000

Contact Sequence ID: 13296553.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: / /
Date Completed: 07/22/92
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 02/26/93
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 02/26/93
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: SITE REASSESSMENT
Date Started: 10/29/01
Date Completed: 11/27/02
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-LQG:

Date form received by agency: 05/31/2016
Facility name: CONTAINER MANAGEMENT SERVICES
Facility address: 21301 CLOUD WAY
HAYWARD, CA 94545
EPA ID: CAR000031526

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Mailing address: NE KILLINGSWORTH ST
PORTLAND, OR 97220
Contact: JAY LETTER
Contact address: NE KILLINGSWORTH ST
PORTLAND, OR 97220
Contact country: US
Contact telephone: 541-301-3942
Contact email: JLETTER@MYERSCONTAINER.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: CONTAINER MNGMT SVCS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/24/1996
Owner/Op end date: Not reported

Owner/operator name: HECTOR AND ANA VILLALBA (TRUSTEES)
Owner/operator address: SHOAL DR
SAN MATEO, CA 94404

Owner/operator country: US
Owner/operator telephone: 800-406-9317
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1983
Owner/Op end date: Not reported

Owner/operator name: VILLABA LIVING TRUST
Owner/operator address: 724 FATHOM DR
SAN MATEO, CA 94404

Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1983
Owner/Op end date: Not reported

Owner/operator name: CONTAINER MANAGEMENT SERVICES
Owner/operator address: Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/11/2007
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:

Date form received by agency: 03/01/2014

Site name: CONTAINER MANAGEMENT SERVICES LLC

Classification: Large Quantity Generator

- . Waste code: 123
- . Waste name: Unspecified alkaline solution

- . Waste code: 343
- . Waste name: Unspecified organic liquid mixture

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/28/2012

Site name: CONTAINER MANAGEMENT SERVICES LLC

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 03/01/2010

Site name: CONTAINER MANAGEMENT SERVICES, LLC

Classification: Large Quantity Generator

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 181
. Waste name: Other inorganic solid waste

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

- . Waste code: 281
- . Waste name: Adhesives

- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 343
- . Waste name: Unspecified organic liquid mixture

- . Waste code: 352
- . Waste name: Other organic solids

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

Date form received by agency: 02/26/2008
Site name: CONTAINER MANAGEMENT SERVICES, LLC
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

Date form received by agency: 01/11/2008
Site name: CONTAINER MNGMT SVCS LLC
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

. Waste name: LEAD

. Waste code: D010

. Waste name: SELENIUM

Date form received by agency: 11/16/2007

Site name: CONTAINER MNGMT SVCS LLC

Classification: Large Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE WASTE

. Waste code: D002

. Waste name: CORROSIVE WASTE

. Waste code: D006

. Waste name: CADMIUM

. Waste code: D007

. Waste name: CHROMIUM

. Waste code: D008

. Waste name: LEAD

. Waste code: D010

. Waste name: SELENIUM

Date form received by agency: 02/13/2006

Site name: CONTAINER MANAGEMENT SERVICES - HAYWARD

Classification: Large Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE WASTE

. Waste code: D002

. Waste name: CORROSIVE WASTE

. Waste code: D007

. Waste name: CHROMIUM

. Waste code: D008

. Waste name: LEAD

. Waste code: D035

. Waste name: METHYL ETHYL KETONE

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/11/2004

Site name: CONTAINER MNGMT SVCS HAYWARD

Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Date form received by agency: 03/01/2002

Site name: CONTAINER MANAGEMENT SERVICES, LLC - HAY

Classification: Large Quantity Generator

. Waste code: 121
. Waste name: 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)

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

Date form received by agency: 10/12/2000

Site name: CONTAINER MANAGEMENT SERVICES - HAYWARD

Classification: Large Quantity Generator

Date form received by agency: 03/04/1999

Site name: CONTAINER MANAGEMENT SERVICES, LLC

Classification: Large Quantity Generator

Date form received by agency: 09/12/1997

Site name: CONTAINER MANAGEMENT SERVICES

Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Biennial Reports:

Last Biennial Reporting Year: 2017

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 158850

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 151500

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 158850

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 158850

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 158850

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/04/2005
Date achieved compliance: 12/02/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/04/2005
Date achieved compliance: 12/02/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 10/28/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/20/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/28/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/13/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/04/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/02/2005
Evaluation lead agency: Local

ICIS:

Enforcement Action ID: CABAAA000006001A196500031
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500031
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545
Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAAA000006001A196500030
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500030
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAAA000006001A196500029
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500029
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAAA000006001A196500023
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500023
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Enforcement Action Type: Administrative Order
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAA000006001A196500022
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500022
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAA000006001A196500021
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500021
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAA000006001A196500014
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545
Enforcement Action Type: Administrative Order
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAAA000006001A196500013
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500013
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Enforcement Action ID: CABAAA000006001A196500007
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500007
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545

Enforcement Action Type: Notice of Violation
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Enforcement Action ID: CABAAA000006001A196500006
FRS ID: 110000783073
Action Name: CONTAINER MANAGEMENT SERVICES, LLC 06001A196500006
Facility Name: CONTAINER MANAGEMENT SERVICES, LLC
Facility Address: 21301 CLOUD WAY
HAYWARD, CA 94545
Enforcement Action Type: Administrative Order
Facility County: ALAMEDA
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 3479
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.65514
Longitude in Decimal Degrees: -122.12595
Permit Type Desc: Not reported
Program System Acronym: CABAA00006001A1965
Facility NAICS Code: 332431
Tribal Land Code: Not reported

US AIRS (AFS):

Envid: 1001217294
Region Code: 09
County Code: CA001
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
D and B Number: Not reported
Facility Site Name: CONTAINER MANAGEMENT SERVICES, LLC
Primary SIC Code: 3479
NAICS Code: 332431
Default Air Classification Code: SMI
Facility Type of Ownership Code: POF
Air CMS Category Code: OTH
HPV Status: Not reported

US AIRS (AFS):

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1996-07-21 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1999-04-27 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2004-07-13 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-04-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-05-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-07-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-07-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-07-01 00:00:00
Activity Status Date: 1996-07-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-04-08 00:00:00
Activity Status Date: 1999-04-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-02-17 00:00:00
Activity Status Date: 2004-02-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-05-30 00:00:00
Activity Status Date: 1996-05-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-18 00:00:00
Activity Status Date: 1998-09-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-01-22 00:00:00
Activity Status Date: 2004-01-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CABAA00006001A1965
Facility Registry ID: 110000783073
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Title V Permits
Activity Date: 2015-06-02 00:00:00
Activity Status Date: 2016-07-28 12:10:46
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Activity Type: Inspection/Evaluation
Activity Status: Active

FINDS:

Registry ID: 110000783073

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR EMISSIONS CLASSIFICATION UNKNOWN

AIR SYNTHETIC MINOR

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

HAZARDOUS AIR POLLUTANT MAJOR

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1001217294
Registry ID: 110000783073
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000783073>

HAZNET:

envid: 1001217294
Year: 2016
GEPaid: CAR000031526

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

Contact: RICCI KELLER
Telephone: 5032550557
Mailing Name: Not reported
Mailing Address: 8435 NE KILLINGSWORTH
Mailing City,St,Zip: PORTLAND, OR 97220
Gen County: Alameda
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Unspecified organic liquid mixture
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 1.87
Cat Decode: Unspecified organic liquid mixture
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Alameda

envid: 1001217294
Year: 2016
GEPaid: CAR000031526
Contact: RICCI KELLER
Telephone: 5032550557
Mailing Name: Not reported
Mailing Address: 8435 NE KILLINGSWORTH
Mailing City,St,Zip: PORTLAND, OR 97220
Gen County: Alameda
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Unspecified alkaline solution
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 39.5316
Cat Decode: Unspecified alkaline solution
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Alameda

envid: 1001217294
Year: 2016
GEPaid: CAR000031526
Contact: RICCI KELLER
Telephone: 5032550557
Mailing Name: Not reported
Mailing Address: 8435 NE KILLINGSWORTH
Mailing City,St,Zip: PORTLAND, OR 97220
Gen County: Alameda
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Alameda

envid: 1001217294
Year: 2016

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CONTAINER MANAGEMENT SERVICES (Continued)

1001217294

GEPaid: CAR000031526
 Contact: RICCI KELLER
 Telephone: 5032550557
 Mailing Name: Not reported
 Mailing Address: 8435 NE KILLINGSWORTH
 Mailing City,St,Zip: PORTLAND, OR 97220
 Gen County: Alameda
 TSD EPA ID: NED981723513
 TSD County: 99
 Waste Category: Unspecified organic liquid mixture
 Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
 Tons: 14.175
 Cat Decode: Unspecified organic liquid mixture
 Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
 Facility County: Alameda

envid: 1001217294
 Year: 2016
 GEPaid: CAR000031526
 Contact: RICCI KELLER
 Telephone: 5032550557
 Mailing Name: Not reported
 Mailing Address: 8435 NE KILLINGSWORTH
 Mailing City,St,Zip: PORTLAND, OR 97220
 Gen County: Alameda
 TSD EPA ID: CAD059494310
 TSD County: Santa Clara
 Waste Category: Other organic solids
 Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
 Tons: 3.3
 Cat Decode: Other organic solids
 Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
 Facility County: Alameda

[Click this hyperlink](#) while viewing on your computer to access 394 additional CA_HAZNET: record(s) in the EDR Site Report.

O69
South
1/4-1/2
0.429 mi.
2264 ft.

VENTURA PROPERTIES (ALSO 24137 EDEN
23836-23830 SAKLAN RD
HAYWARD, CA 94545
Site 1 of 2 in cluster O

Alameda County CS S106784870
N/A

Relative:
Lower

Alameda County CS:
 Status: Leak Confirmation
 Record Id: RO0002795
 PE: 5502
 Facility Status: Leak Confirmation
 Latitude: 37.647192411
 Longitude: -122.11841518

Actual:
35 ft.

Status: 11
 Record Id: RO0002795
 PE: 5502
 Facility Status: Not reported
 Latitude: 37.647192411

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

VENTURA PROPERTIES (ALSO 24137 EDEN (Continued))

S106784870

Longitude: -122.11841518
 Status: Pollution Characterization
 Record Id: RO0002795
 PE: 5502
 Facility Status: Pollution Characterization
 Latitude: 37.647192411
 Longitude: -122.11841518

O70
South
1/4-1/2
0.429 mi.
2264 ft.

VENTURA PROPERTIES
23836-23830 SAKLAN ROAD
HAYWARD, CA 94545
Site 2 of 2 in cluster O

SLIC S113888524
N/A

Relative:
Lower

Actual:
35 ft.

SLIC:
 Region: STATE
Facility Status: Completed - Case Closed
 Status Date: 11/05/2014
 Global Id: T10000005081
 Lead Agency: ALAMEDA COUNTY LOP
 Lead Agency Case Number: RO0002795
 Latitude: 37.6470901414255
 Longitude: -122.117239388885
 Case Type: Cleanup Program Site
 Case Worker: MD
 Local Agency: ALAMEDA COUNTY LOP
 RB Case Number: Not reported
 File Location: Not reported
 Potential Media Affected: Soil
 Potential Contaminants of Concern: Other Insecticides / Pesticide / Fumigants / Herbicides
 Site History: Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Environmental Health website at: <http://ehgis.acgov.org/dehpublic/dehpublic.jsp>. Project also includes property at 24137 Eden Avenue, Hayward. January 1992: Limited-extent soil tilling to 18-24 inches below ground surface (bgs) on the eastern portion of 23830 Saklan Road. 2013 and 2014: An excavator and backhoe were utilized for soil excavation to depths ranging from 1-foot to 1.5-feet in areas where identified contaminant concentrations were above residential land use. Final cleanup goals were defined as the lowest concentration determined by either the San Francisco Bay Regional Water Quality Control Boards (RWQCBs) Environmental Screening Level (ESL) for residential land use, dated December 2013 (but initially included previous versions) or Federal EPA Regional Screening Levels (RSL) for residential soil, dated November 2012. The potential success and extent of removal was subsequently confirmed with additional soil sampling. Airborne particulate generation was minimized by utilizing water spray during excavation and truck loading. Perimeter air monitoring was conducted over the majority of each 8-hour work day (4 days) to verify potential dust emissions. No pesticide or PCB compounds were detected during the monitoring events. Where OSHA PEL and TWA reporting limits existed (e.g. for chlordane and DDT), those PELs and TWAs were not exceeded. Dust monitoring indicated that all results were below 0.5 mg/m3 and that wetting of soil during excavation activities prevented pesticide-impacted dust from leaving the subject site. During August and October 2013, 329.41 tons of pesticide-impacted soil was

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

VENTURA PROPERTIES (Continued)

S113888524

excavated from the 23636 Saklan Road and 24137 Eden Avenue parcels and disposed off-site. The parcel located at 23830 Saklan Road did not contain soil concentrations exceeding applicable cleanup screening criteria. Approximately 279 tons was disposed at Recology Hay Road Landfill as non-hazardous waste and approximately 49 tons of soil was disposed at Buttonwillow Landfill as hazardous waste. Initial confirmation soil samples were collected on August 28, September 10, and September 30, 2013. Final over-excavation confirmation soil samples were collected on March 27, 2014 which demonstrated that OCPs and PCB concentrations at 23836 Saklan Road and 24137 Eden Avenue were below cleanup screening criteria. An additional 28.56 tons of soil was excavated in June 2014 at and around Conf-3 soil sample location to remove concentrations of beta-BHC in surface soils above residential use screening criteria. The soil was disposed of at the Buttonwillow Landfill as hazardous waste. Final confirmation of the removal of contaminated soil beneath Conf-3 (collected at 0.5 feet below surface grade [bgs]) was not conducted due to the consistency of non-detectable concentrations at the final depth of removal (1 to 1.5 feet bgs). Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Environmental Health website at: <http://ehgis.acgov.org/dehpublic/dehpublic.jsp>.

Click here to access the California GeoTracker records for this facility:

71
ESE
1/4-1/2
0.431 mi.
2274 ft.

SOUTHLAND CHEVRON
24350 HESPERIAN BLVD
HAYWARD, CA 94545

LUST **S101623732**
SWEEPS UST **N/A**
HIST UST
CA FID UST
HIST CORTESE

Relative:
Higher

LUST:

Actual:
49 ft.

Lead Agency: HAYWARD, CITY OF
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100319
 Global Id: T0600100319
 Latitude: 37.6505354517597
 Longitude: -122.108305692673
 Status: Completed - Case Closed
 Status Date: 06/06/2011
 Case Worker: DMG
 RB Case Number: 01-0347
 Local Agency: HAYWARD, CITY OF
 File Location: Local Agency
 Local Case Number: 01-0347
 Potential Media Affect: Other Groundwater (uses other than drinking water)
 Potential Contaminants of Concern: Gasoline
 Site History: Not reported

LUST:

Global Id: T0600100319
 Contact Type: Local Agency Caseworker
 Contact Name: DANILO M. GALANG
 Organization Name: HAYWARD, CITY OF
 Address: 777 B STREET
 City: HAYWARD
 Email: danny.galang@hayward-ca.gov

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHLAND CHEVRON (Continued)

S101623732

Phone Number: Not reported

LUST:

Global Id: T0600100319
Action Type: RESPONSE
Date: 03/09/1999
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 08/31/1999
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 01/16/2008
Action: Request for Closure

Global Id: T0600100319
Action Type: ENFORCEMENT
Date: 06/06/2011
Action: Closure/No Further Action Letter

Global Id: T0600100319
Action Type: RESPONSE
Date: 05/13/2005
Action: Request for Closure

Global Id: T0600100319
Action Type: Other
Date: 08/14/1989
Action: Leak Stopped

Global Id: T0600100319
Action Type: RESPONSE
Date: 07/27/1998
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 01/23/1998
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 10/10/1996
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 06/24/1999
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 04/04/2011
Action: Well Destruction Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHLAND CHEVRON (Continued)

S101623732

Global Id: T0600100319
Action Type: Other
Date: 08/14/1989
Action: Leak Reported

Global Id: T0600100319
Action Type: RESPONSE
Date: 11/13/1997
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: RESPONSE
Date: 01/10/1997
Action: Monitoring Report - Quarterly

Global Id: T0600100319
Action Type: ENFORCEMENT
Date: 01/18/2010
Action: Referral to Regional Board

Global Id: T0600100319
Action Type: Other
Date: 08/14/1989
Action: Leak Discovery

Global Id: T0600100319
Action Type: RESPONSE
Date: 10/14/1998
Action: Monitoring Report - Quarterly

LUST:

Global Id: T0600100319
Status: Completed - Case Closed
Status Date: 06/06/2011

Global Id: T0600100319
Status: Open - Case Begin Date
Status Date: 07/19/1989

Global Id: T0600100319
Status: Open - Referred
Status Date: 01/18/2010

Global Id: T0600100319
Status: Open - Remediation
Status Date: 03/22/1993

Global Id: T0600100319
Status: Open - Site Assessment
Status Date: 07/19/1989

Global Id: T0600100319
Status: Open - Site Assessment
Status Date: 08/22/1989

Global Id: T0600100319
Status: Open - Site Assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHLAND CHEVRON (Continued)

S101623732

Status Date: 03/26/1991

Global Id: T0600100319
Status: Open - Verification Monitoring
Status Date: 06/29/1990

Global Id: T0600100319
Status: Open - Verification Monitoring
Status Date: 06/30/2009

Global Id: T0600100319
Status: Open - Verification Monitoring
Status Date: 07/19/2010

LUST REG 2:

Region: 2
Facility Id: 01-0347
Facility Status: Remediation Plan
Case Number: 01-0347
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/22/1989
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 7/19/1989
Pollution Characterization Began: 3/26/1991
Pollution Remediation Plan Submitted: 3/22/1993
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Active
Comp Number: 19574
Number: 1
Board Of Equalization: 44-031913
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000005
Tank Status: A
Capacity: 15000
Active Date: 06-10-93
Tank Use: M.V. FUEL
STG: P
Content: REGULAR UNLE
Number Of Tanks: 3

Status: Active
Comp Number: 19574
Number: 1
Board Of Equalization: 44-031913
Referral Date: 07-08-93
Action Date: 07-08-93

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHLAND CHEVRON (Continued)

S101623732

Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000006
Tank Status: A
Capacity: 15000
Active Date: 06-10-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 19574
Number: 1
Board Of Equalization: 44-031913
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000007
Tank Status: A
Capacity: 15000
Active Date: 06-10-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 19574
Number: Not reported
Board Of Equalization: 44-031913
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000001
Tank Status: Not reported
Capacity: 9500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 19574
Number: Not reported
Board Of Equalization: 44-031913
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000002
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHLAND CHEVRON (Continued)

S101623732

Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 19574
Number: Not reported
Board Of Equalization: 44-031913
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000003
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 19574
Number: Not reported
Board Of Equalization: 44-031913
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-019574-000004
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

HIST UST:

File Number: 00035E43
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035E43.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHLAND CHEVRON (Continued)

S101623732

Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID: 01000478
Regulated By: UTKNI
Regulated ID: 00019574
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158878515
Mail To: Not reported
Mailing Address: 2410 CAMINO RAMON
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0347

P72
West
1/4-1/2
0.431 mi.
2278 ft.

FRY #39;S METALS
1845 W WINTON AVE
HAYWARD, CA 94545
Site 1 of 2 in cluster P

SWRCY S107137025
N/A

Relative:
Lower

SWRCY:
Reg Id: 247810
Cert Id: RC247810.001
Mailing Address: 484 Oxford St
Mailing City: Hayward
Mailing State: CA
Mailing Zip Code: Not reported
Website: Not reported
Email: frysmetals@gmail.com
Phone Number: (510) 276-4344
Grand Father: N
Rural: N
Operation Begin Date: 07/01/2016
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Agency: N/A
Monday Hours Of Operation: 9:00 am - 5:00 pm

Actual:
26 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRY #39;S METALS (Continued)

S107137025

Tuesday Hours Of Operation: 9:00 am - 5:00 pm
Wednesday Hours Of Operation: 9:00 am - 5:00 pm
Thursday Hours Of Operation: 9:00 am - 5:00 pm
Friday Hours Of Operation: 8:00 am - 4:00 pm
Saturday Hours Of Operation: 9:00 am - 1:00 pm
Sunday Hours Of Operation: CLOSED
Organization ID: 245624
Organization Name: Fry #39;s Machinery & Metals

P73
WSW
1/4-1/2
0.438 mi.
2310 ft.

WALKER'S CONCRETE
1844 WINTON AVE W
HAYWARD, CA 94545
Site 2 of 2 in cluster P

LUST 1001610706
HIST CORTESE N/A

Relative:
Lower

LUST:

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101519
Global Id: T0600101519
Latitude: 37.652620482
Longitude: -122.125104
Status: Completed - Case Closed
Status Date: 12/16/2013
Case Worker: UUU
RB Case Number: 01-1644
Local Agency: HAYWARD, CITY OF
File Location: Local Agency
Local Case Number: TT01-1644
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Central Concrete Supply. Co. took over Wlaker's Concrete, owners and operators of the USTs when the case was initiated in April 1995.

LUST:

Global Id: T0600101519
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101519
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101519
Action Type: ENFORCEMENT
Date: 04/04/2013
Action: Technical Correspondence / Assistance / Other

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALKER'S CONCRETE (Continued)

1001610706

Global Id: T0600101519
Action Type: ENFORCEMENT
Date: 12/16/2013
Action: Closure/No Further Action Letter

Global Id: T0600101519
Action Type: ENFORCEMENT
Date: 07/16/2008
Action: Staff Letter

Global Id: T0600101519
Action Type: Other
Date: 07/31/1986
Action: Leak Stopped

Global Id: T0600101519
Action Type: ENFORCEMENT
Date: 09/21/2009
Action: Staff Letter

Global Id: T0600101519
Action Type: Other
Date: 07/31/1986
Action: Leak Reported

Global Id: T0600101519
Action Type: Other
Date: 07/31/1986
Action: Leak Discovery

Global Id: T0600101519
Action Type: RESPONSE
Date: 04/01/2013
Action: Site Investigation Workplan - Regulator Responded

LUST:

Global Id: T0600101519
Status: Completed - Case Closed
Status Date: 12/16/2013

Global Id: T0600101519
Status: Open - Case Begin Date
Status Date: 05/12/1986

Global Id: T0600101519
Status: Open - Eligible for Closure
Status Date: 02/23/2009

Global Id: T0600101519
Status: Open - Eligible for Closure
Status Date: 09/21/2009

Global Id: T0600101519
Status: Open - Site Assessment
Status Date: 05/12/1986

Global Id: T0600101519

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WALKER'S CONCRETE (Continued)

1001610706

Status: Open - Site Assessment
 Status Date: 02/23/2009

LUST REG 2:

Region: 2
 Facility Id: 01-1644
 Facility Status: Preliminary site assessment underway
 Case Number: 01-1644
 How Discovered: Tank Closure
 Leak Cause: Structure Failure
 Leak Source: Tank
 Date Leak Confirmed: Not reported
 Oversight Program: LUST
 Prelim. Site Assessment Workplan Submitted: Not reported
 Preliminary Site Assessment Began: 5/12/1986
 Pollution Characterization Began: Not reported
 Pollution Remediation Plan Submitted: Not reported
 Date Remediation Action Underway: Not reported
 Date Post Remedial Action Monitoring Began: Not reported

HIST CORTESE:

Region: CORTESE
 Facility County Code: 1
 Reg By: LTNKA
 Reg Id: 01-1644

74
SSW
 1/4-1/2
 0.455 mi.
 2405 ft.

UNKNOWN
23726 CLAWITER
HAYWARD, CA 94545

HIST CORTESE **S105024039**
N/A

Relative:
Lower

HIST CORTESE:
 Region: CORTESE
 Facility County Code: 1
 Reg By: LTNKA
 Reg Id: 2577

Actual:
31 ft.

Q75
WNW
 1/4-1/2
 0.469 mi.
 2474 ft.

FORMER BAR S FACILITY
20725 CORSAIR BLVD
HAYWARD, CA 94545
Site 1 of 2 in cluster Q

LUST **S101580050**
SWEEPS UST **N/A**
CA FID UST
HIST CORTESE

Relative:
Lower

LUST:
 Lead Agency: HAYWARD, CITY OF
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100604
 Global Id: T0600100604
 Latitude: 37.6573
 Longitude: -122.12645
 Status: Completed - Case Closed
 Status Date: 04/09/1996
 Case Worker: DMG

Actual:
23 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER BAR S FACILITY (Continued)

S101580050

RB Case Number: 01-0654
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-0654
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600100604
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600100604
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600100604
Action Type: Other
Date: 08/06/1991
Action: Leak Discovery

Global Id: T0600100604
Action Type: ENFORCEMENT
Date: 03/27/1996
Action: Closure/No Further Action Letter

Global Id: T0600100604
Action Type: Other
Date: 08/06/1991
Action: Leak Stopped

Global Id: T0600100604
Action Type: Other
Date: 08/06/1991
Action: Leak Reported

LUST:

Global Id: T0600100604
Status: Completed - Case Closed
Status Date: 04/09/1996

Global Id: T0600100604
Status: Open - Case Begin Date
Status Date: 08/06/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER BAR S FACILITY (Continued)

S101580050

Global Id: T0600100604
Status: Open - Remediation
Status Date: 04/21/1994

Global Id: T0600100604
Status: Open - Site Assessment
Status Date: 10/07/1991

SWEEPS UST:

Status: Not reported
Comp Number: 126
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000126-000001
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 1

CA FID UST:

Facility ID: 01000779
Regulated By: UTKNI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 2550 ROUND HILL DRIVE
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0654

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

Q76
WNW
1/4-1/2
0.469 mi.
2474 ft.

BAR S FACILITY
20725 CORSAIR BLVD
HAYWARD, CA 94545

Site 2 of 2 in cluster Q

LUST **S102424933**
N/A

Relative:
Lower

LUST REG 2:
Region: 2
Facility Id: 01-0654
Facility Status: Case Closed
Case Number: 01-0654
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 10/7/1991
Oversight Program: LUST
Prelim. Site Assessment Wokplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: 4/21/1994
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

77
WNW
1/4-1/2
0.471 mi.
2489 ft.

GORDON EVERETT PROPERTY
1693 SABRE ST
HAYWARD, CA 94545

LUST **S106093788**
N/A

Relative:
Lower

LUST:
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600173326
Global Id: T0600173326
Latitude: 37.656758
Longitude: -122.126591
Status: Completed - Case Closed
Status Date: 01/31/2014
Case Worker: UUU
RB Case Number: 01-3537
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Human Health Exposure is controlled. Primary reasons: (1) there is no complete current exposure pathway for groundwater ingestion because there is no groundwater withdrawal - no wells - in or near the contaminant plume, and (2) the groundwater concentrations measured in the most recent investigation - 8 November 2011 - are below thresholds of concern for vapor migration and inhalation. Groundwater Migration is controlled. Primary reason: The most recent investigation - 8 November 2011 - included investigation on the downgradient/northwest side of the existing onsite structure, which found no detectable groundwater contamination, indicating the contamination has migrated less than 200 feet from the original release location. Transfer of oversight from the Hayward Fire Department to the Regional Board on 12/30/2013.

LUST:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GORDON EVERETT PROPERTY (Continued)

S106093788

Global Id: T0600173326
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600173326
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600173326
Action Type: ENFORCEMENT
Date: 04/09/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0600173326
Action Type: ENFORCEMENT
Date: 12/30/2013
Action: Referral to Regional Board

Global Id: T0600173326
Action Type: ENFORCEMENT
Date: 01/20/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0600173326
Action Type: RESPONSE
Date: 05/22/2006
Action: Soil and Water Investigation Workplan

Global Id: T0600173326
Action Type: Other
Date: 09/13/2005
Action: Leak Discovery

Global Id: T0600173326
Action Type: ENFORCEMENT
Date: 01/31/2014
Action: Closure/No Further Action Letter

Global Id: T0600173326
Action Type: RESPONSE
Date: 12/11/2007
Action: Soil and Water Investigation Report

Global Id: T0600173326
Action Type: RESPONSE
Date: 04/10/2010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GORDON EVERETT PROPERTY (Continued)

S106093788

Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0600173326
Action Type: RESPONSE
Date: 08/22/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0600173326
Action Type: RESPONSE
Date: 08/30/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600173326
Action Type: RESPONSE
Date: 12/06/2011
Action: Soil and Water Investigation Report

Global Id: T0600173326
Action Type: Other
Date: 09/28/2005
Action: Leak Reported

Global Id: T0600173326
Action Type: RESPONSE
Date: 03/15/2012
Action: Well Installation Workplan

Global Id: T0600173326
Action Type: ENFORCEMENT
Date: 12/14/2011
Action: Staff Letter

LUST:

Global Id: T0600173326
Status: Completed - Case Closed
Status Date: 01/31/2014

Global Id: T0600173326
Status: Open - Case Begin Date
Status Date: 08/24/2005

Global Id: T0600173326
Status: Open - Eligible for Closure
Status Date: 06/25/2013

Global Id: T0600173326
Status: Open - Remediation
Status Date: 09/16/2009

Global Id: T0600173326
Status: Open - Site Assessment
Status Date: 08/24/2005

Global Id: T0600173326
Status: Open - Site Assessment
Status Date: 08/29/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GORDON EVERETT PROPERTY (Continued)

S106093788

Global Id: T0600173326
Status: Open - Site Assessment
Status Date: 03/01/2006

Global Id: T0600173326
Status: Open - Site Assessment
Status Date: 04/25/2006

Global Id: T0600173326
Status: Open - Site Assessment
Status Date: 05/22/2006

Global Id: T0600173326
Status: Open - Site Assessment
Status Date: 06/25/2007

Global Id: T0600173326
Status: Open - Verification Monitoring
Status Date: 07/19/2010

R78
North
1/4-1/2
0.483 mi.
2548 ft.

HAYWARD AIR TERMINAL
20511 SKYWEST DR
HAYWARD, CA 94541
Site 1 of 2 in cluster R

LUST **U001596983**
SLIC **N/A**
HIST UST

Relative:
Lower

LUST:

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101930
Global Id: T0600101930
Latitude: 37.6634208
Longitude: -122.1199122
Status: Completed - Case Closed
Status Date: 11/30/1998
Case Worker: UUU
RB Case Number: 01-2101
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-2101
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600101930
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101930
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR TERMINAL (Continued)

U001596983

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101930
Action Type: ENFORCEMENT
Date: 04/26/1995
Action: Clean Up Fund - Letter to RP

Global Id: T0600101930
Action Type: Other
Date: 08/09/1995
Action: Leak Discovery

Global Id: T0600101930
Action Type: ENFORCEMENT
Date: 11/30/1998
Action: Closure/No Further Action Letter

Global Id: T0600101930
Action Type: Other
Date: 08/09/1995
Action: Leak Stopped

Global Id: T0600101930
Action Type: Other
Date: 08/09/1995
Action: Leak Reported

Global Id: T0600101930
Action Type: RESPONSE
Date: 11/09/1998
Action: Other Report / Document

Global Id: T0600101930
Action Type: ENFORCEMENT
Date: 11/01/1996
Action: Staff Letter

LUST:

Global Id: T0600101930
Status: Completed - Case Closed
Status Date: 11/30/1998

Global Id: T0600101930
Status: Open - Case Begin Date
Status Date: 08/09/1995

Global Id: T0600101930
Status: Open - Site Assessment
Status Date: 08/09/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR TERMINAL (Continued)

U001596983

SLIC:

Region: STATE
Facility Status: Completed - Case Closed
Status Date: 11/30/1998
Global Id: T0600191513
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: 01S0197
Latitude: 37.6634208
Longitude: -122.1199122
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: HAYWARD, CITY OF
RB Case Number: 01S0197
File Location: Not reported
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: * Solvents
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

HIST UST:

File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000008899
Facility Type: Gas Station
Other Type: Not reported
Contact Name: VERNON L. ETTER, PRESIDENT
Telephone: 4157854501
Owner Name: VOLANS, INC.
Owner Address: 20511 SKYWEST DRIVE
Owner City,St,Zip: HAYWARD, CA 94541
Total Tanks: 0003

Tank Num: 001
Container Num: 100 AVGAS
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 002
Container Num: 80 AVGAS #
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 003
Container Num: JET A #3
Year Installed: Not reported
Tank Capacity: 00012000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR TERMINAL (Continued)

U001596983

Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

R79
North
1/4-1/2
0.483 mi.
2548 ft.

HAYWARD AIR/STEVE PICATTI
20511 SKYWEST DR
HAYWARD, CA 94541
Site 2 of 2 in cluster R

LUST **S101580441**
SLIC **N/A**
SWEEPS UST
HIST UST
CA FID UST
HIST CORTESE

Relative:
Lower

LUST REG 2:

Actual:
34 ft.

Region: 2
Facility Id: 01-2101
Facility Status: Case Closed
Case Number: 01-2101
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 8/9/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC REG 2:

Region: 2
Facility ID: 01S0197
Facility Status: Case Closed
Date Closed: 11/30/1998
Local Case #: 01S0197
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Active
Comp Number: 8899
Number: 1
Board Of Equalization: Not reported
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-008899-000001
Tank Status: A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR/STEVE PICATTI (Continued)

S101580441

Capacity: 12000
Active Date: 06-30-93
Tank Use: M.V. FUEL
STG: P
Content: AVIA. GAS
Number Of Tanks: 3

Status: Active
Comp Number: 8899
Number: 1
Board Of Equalization: Not reported
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-008899-000002
Tank Status: A
Capacity: 12000
Active Date: 06-30-93
Tank Use: PETROLEUM
STG: P
Content: JET FUEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 8899
Number: 1
Board Of Equalization: Not reported
Referral Date: 07-08-93
Action Date: 07-08-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-008899-000003
Tank Status: A
Capacity: 12000
Active Date: 06-30-93
Tank Use: PETROLEUM
STG: P
Content: JET FUEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 8899
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-008899-000004
Tank Status: Not reported
Capacity: 350
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR/STEVE PICATTI (Continued)

S101580441

HIST UST:

File Number: 000364B7
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000364B7.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

[Click here for Geo Tracker PDF:](#)

CA FID UST:

Facility ID: 01002867
Regulated By: UTNKA
Regulated ID: 00008899
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5108741946
Mail To: Not reported
Mailing Address: 21893 SKYWEST DR
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94541
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

Region: CORTESE
Facility County Code: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD AIR/STEVE PICATTI (Continued)

S101580441

Reg By: LTNKA
Reg Id: 01-2101

80
North
1/4-1/2
0.491 mi.
2595 ft.

AMERICAN AIRCRAFT SALES COMPANY
21015 SKYWEST DR
HAYWARD, CA 94541

LUST **U001596973**
HIST UST **N/A**

Relative:
Lower

LUST:

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600165641
Global Id: T0600165641
Latitude: 37.661699458
Longitude: -122.117941665
Status: Completed - Case Closed
Status Date: 09/10/2013
Case Worker: UUU
RB Case Number: 01-3509
Local Agency: HAYWARD, CITY OF
File Location: Local Agency
Local Case Number: TT01-3509
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Aviation
Site History: Not reported

Actual:
36 ft.

LUST:

Global Id: T0600165641
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600165641
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600165641
Action Type: REMEDIATION
Date: 09/03/1999
Action: Not reported

Global Id: T0600165641
Action Type: Other
Date: 04/01/1999
Action: Leak Discovery

Global Id: T0600165641

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AMERICAN AIRCRAFT SALES COMPANY (Continued)

U001596973

Action Type: Other
Date: 04/01/1999
Action: Leak Stopped

Global Id: T0600165641
Action Type: ENFORCEMENT
Date: 11/01/2012
Action: Notification - Preclosure

Global Id: T0600165641
Action Type: ENFORCEMENT
Date: 08/13/2008
Action: Notice to Comply

Global Id: T0600165641
Action Type: Other
Date: 05/17/1999
Action: Leak Reported

Global Id: T0600165641
Action Type: ENFORCEMENT
Date: 09/10/2013
Action: Closure/No Further Action Letter

LUST:

Global Id: T0600165641
Status: Completed - Case Closed
Status Date: 09/10/2013

Global Id: T0600165641
Status: Open - Case Begin Date
Status Date: 04/01/1999

Global Id: T0600165641
Status: Open - Eligible for Closure
Status Date: 02/26/2013

Global Id: T0600165641
Status: Open - Inactive
Status Date: 09/14/2009

Global Id: T0600165641
Status: Open - Site Assessment
Status Date: 09/03/1999

Global Id: T0600165641
Status: Open - Site Assessment
Status Date: 12/21/2010

Global Id: T0600165641
Status: Open - Verification Monitoring
Status Date: 06/03/2011

HIST UST:

File Number: 00036136

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AMERICAN AIRCRAFT SALES COMPANY (Continued)

U001596973

URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036136.pdf>
Region: STATE
Facility ID: 00000041943
Facility Type: Other
Other Type: AIRCRAFT SALES
Contact Name: Not reported
Telephone: 4157832711
Owner Name: MICHAEL E. COUTCHES
Owner Address: 21015 SKYWEST DR.
Owner City,St,Zip: HAYWARD, CA 94541
Total Tanks: 0005

Tank Num: 001
Container Num: 1
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 1/2
Leak Detection: Groundwater Monitoring Well

Tank Num: 002
Container Num: 2
Year Installed: 1981
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 1/2
Leak Detection: Groundwater Monitoring Well

Tank Num: 003
Container Num: 3
Year Installed: 1981
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 1/2
Leak Detection: Groundwater Monitoring Well

Tank Num: 004
Container Num: 4
Year Installed: 1981
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 1/2
Leak Detection: Groundwater Monitoring Well

Tank Num: 005
Container Num: 5
Year Installed: 1981
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/2
Leak Detection: Groundwater Monitoring Well

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AMERICAN AIRCRAFT SALES COMPANY (Continued)

U001596973

[Click here for Geo Tracker PDF:](#)

81
SSW
1/4-1/2
0.492 mi.
2600 ft.

DOUBLE O2SALVAGE INC.
2034 AMERICAN AVE
HAYWARD, CA 94545

ENVIROSTOR S101580178
LUST N/A
SWEEPS UST
CA FID UST
HIST CORTESE
NPDES
WDS

Relative:
Lower

Actual:
29 ft.

ENVIROSTOR:

Facility ID: 1200006
Status: Refer: RWQCB
Status Date: 07/29/1993
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.64609
Longitude: -122.1207
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HYDROCARBON SOLVENTS * OXYGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101416
Global Id: T0600101416
Latitude: 37.6464051
Longitude: -122.1206389
Status: Completed - Case Closed
Status Date: 05/29/1996
Case Worker: DMG
RB Case Number: 01-1533
Local Agency: HAYWARD, CITY OF
File Location: Not reported
Local Case Number: 01-1533
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600101416
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600101416
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600101416
Action Type: Other
Date: 04/08/1991
Action: Leak Discovery

Global Id: T0600101416
Action Type: Other
Date: 04/08/1991
Action: Leak Stopped

Global Id: T0600101416
Action Type: Other
Date: 04/08/1991
Action: Leak Reported

LUST:

Global Id: T0600101416
Status: Completed - Case Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

Status Date: 05/29/1996

Global Id: T0600101416
Status: Open - Case Begin Date
Status Date: 04/08/1991

Global Id: T0600101416
Status: Open - Site Assessment
Status Date: 05/17/1991

Global Id: T0600101416
Status: Open - Site Assessment
Status Date: 12/22/1992

LUST REG 2:

Region: 2
Facility Id: 01-1533
Facility Status: Case Closed
Case Number: 01-1533
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 5/17/1991
Oversight Program: LUST
Prelim. Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 12/22/1992
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:

Status: Not reported
Comp Number: 91824
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-091824-000001
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 1

CA FID UST:

Facility ID: 01001646
Regulated By: UTKNI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

Facility Phone: 5107822002
Mail To: Not reported
Mailing Address: 445 S FIGUEROA
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1533

Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01200096

NPDES:

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 180870
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 011009960
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/26/1993
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: WALTER P SENTER III
Discharge Address: 2034 American Ave
Discharge City: Hayward
Discharge State: California
Discharge Zip: 94545
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	180870
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	2 011009960
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 05/09/2008
PROCESSED DATE: 05/26/1993
STATUS CODE NAME: Active
STATUS DATE: 05/26/1993
PLACE SIZE: 20000
PLACE SIZE UNIT: SqFt
FACILITY CONTACT NAME: Marshall Howard
FACILITY CONTACT TITLE: pres
FACILITY CONTACT PHONE: 510-782-2002
FACILITY CONTACT PHONE EXT: 5
FACILITY CONTACT EMAIL: mthree@002salvage.com
OPERATOR NAME: WALTER P SENTER III
OPERATOR ADDRESS: 2034 American Ave
OPERATOR CITY: Hayward
OPERATOR STATE: California
OPERATOR ZIP: 94545
OPERATOR CONTACT NAME: Marshall Howard
OPERATOR CONTACT TITLE: pres
OPERATOR CONTACT PHONE: 510-782-2002
OPERATOR CONTACT PHONE EXT: 5
OPERATOR CONTACT EMAIL: mthree@double02salvage.com
OPERATOR TYPE: Private Business
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: California
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: 510-782-2002
EMERGENCY PHONE EXT: 5
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N
RECEIVING WATER NAME: San Francisco Bay

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

CERTIFIER NAME: marshall howard
CERTIFIER TITLE: pres
CERTIFICATION DATE: 10-JUN-15
PRIMARY SIC: 5015-Motor Vehicle Parts, Used
SECONDARY SIC: 5015-Motor Vehicle Parts, Used
TERTIARY SIC: Not reported

WDS:

Facility ID: San Francisco Bay 011009960
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: DOUBLE O2 SALVAGE
Agency Address: 2034 American Ave
Agency City,St,Zip: Hayward 94545
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 5015
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.
Facility ID: San Francisco Bay 011009960
Facility Type: Not reported
Facility Status: Active - Any facility with a continuous or seasonal discharge that is

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DOUBLE O2SALVAGE INC. (Continued)

S101580178

NPDES Number: under Waste Discharge Requirements. CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 2

Facility Telephone: Not reported

Facility Contact: Not reported

Agency Name: WALTER P. SENTER III

Agency Address: Not reported

Agency City,St,Zip: 0

Agency Contact: Not reported

Agency Telephone: Not reported

Agency Type: Not reported

SIC Code: 0

SIC Code 2: Not reported

Primary Waste Type: Not reported

Primary Waste: Not reported

Waste Type2: Not reported

Waste2: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

S82
NNW
1/2-1
0.576 mi.
3041 ft.

HAYWARD ARMY AIRFIELD
20301 SKYWEST DR
HAYWARD, CA 94541
Site 1 of 2 in cluster S

HIST Cal-Sites S101661365
N/A

Relative:
Lower

Calsite:
 Region: SACRAMENTO
 Facility ID: 01970008
 Facility Type: OPEN
 Type: OPEN MILITARY BASE
 Branch: NO
 Branch Name: OMF-NORTHERN CALIF
 File Name: HAYWARD ARMY AIRFIELD
 State Senate District: 08171995
 Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
 Status Name: ANNUAL WORKPLAN - ACTIVE SITE
 Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
 NPL: Not Listed
 SIC Code: 97

Actual:
30 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAYWARD ARMY AIRFIELD (Continued)

S101661365

SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Suspected
Staff Member Responsible for Site: LMCMAHA1
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 18
State Senate District Code: 10
Facility ID: 01970008
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: BASWD
Proposed Budget: 0
AWP Completion Date: 03312010
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 1525 WEST WINSTON AVE.
Alternate City,St,Zip: HAYWARD, CA 94545
Alternate Address: 20301 SKYWEST DR
Alternate City,St,Zip: HAYWARD, CA 94541
Alternate Address: 20301 SKYWEST DRIVE
Alternate City,St,Zip: HAYWARD, CA 94545
Background Info: Hayward Army Airfield came into operation in the early 1940s, with the entry of the United States into World War II. The airfield had two runways, and at least 4 areas where planes were defueled. One of the defueling areas is located on the Hayward Air National Guard Station, which is currently active. Three burn areas are also known to have been present on the site. *** OPERABLE UNIT/ SITE DESCRIPTIONS *** BA01 - Burn Area 1: COCs: Unknown BA02 - Burn Area 2: COCs: Unknown BA03 - Burn Area 3: COCs: Unknown DEF01 - Defueling Area 1: COCs Unknown DEF02 - Defueling Area 2: COCs Unknown DEF03 - Defueling Area 3: COCs: Unknown * ** Commitment Description *** BASWD - Basewide activity; meanin

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HAYWARD ARMY AIRFIELD (Continued)

S101661365

g it should cover the area of the former Hayward Army Airfield.
 Comments Date: Not reported
 Comments: Not reported
 ID Name: Not reported
 ID Value: Not reported
 Alternate Name: HAYWARD AIR TERMINAL
 Alternate Name: HAYWARD ARMY AIRFIELD
 Alternate Name: Hayward Army Airfield
 Alternate Name: Not reported
 Special Programs Code: DSMOA
 Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

**S83
 NNW
 1/2-1
 0.576 mi.
 3041 ft.**

**AIR TRAFFIC CONTROL TOWER
 20301 SKYWEST DR
 HAYWARD, CA 94541
 Site 2 of 2 in cluster S**

**RESPONSE S101580454
 ENVIROSTOR N/A
 LUST
 SWEEPS UST
 CA FID UST
 HIST CORTESE
 NPDES**

**Relative:
 Lower**

**Actual:
 30 ft.**

RESPONSE:
 Facility ID: 1970008
 Site Type: State Response
 Site Type Detail: FUDS
 Acres: 727
 National Priorities List: NO
 Cleanup Oversight Agencies: SMBRP
 Lead Agency Description: DTSC - Site Cleanup Program
 Project Manager: Duane White
 Supervisor: Fernando A. Amador
 Division Branch: Cleanup Sacramento
 Site Code: 900196
 Site Mgmt. Req.: NONE SPECIFIED
 Assembly: 20
 Senate: 10
 Special Program Status: DSMOA
 Status: Active
 Status Date: 01/22/2015
 Restricted Use: NO
 Funding: DERA
 Latitude: 37.66279
 Longitude: -122.1204
 APN: NONE SPECIFIED
 Past Use: FIRE TRAINING AREAS, FUEL - AIRCRAFT STORAGE/ REFUELING, FUEL - VEHICLE STORAGE/ REFUELING
 Potential COC : * HYDROCARBON SOLVENTS
 Confirmed COC: NONE SPECIFIED
 Potential Description: SOIL
 Alias Name: Not reported
 Alias Type: Not reported

Completed Info:
 Completed Area Name: Not reported
 Completed Sub Area Name: Not reported
 Completed Document Type: Not reported
 Completed Date: Not reported
 Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:

Facility ID: 1970008
Status: Active
Status Date: 01/22/2015
Site Code: 900196
Site Type: State Response
Site Type Detailed: FUDS
Acres: 727
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Duane White
Supervisor: Fernando A. Amador
Division Branch: Cleanup Sacramento
Assembly: 20
Senate: 10
Special Program: DSMOA
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 37.66279
Longitude: -122.1204
APN: NONE SPECIFIED
Past Use: FIRE TRAINING AREAS, FUEL - AIRCRAFT STORAGE/ REFUELING, FUEL - VEHICLE STORAGE/ REFUELING
Potential COC: * HYDROCARBON SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

LUST:

Lead Agency: HAYWARD, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600102050
Global Id: T0600102050
Latitude: 37.662902964
Longitude: -122.120647
Status: Completed - Case Closed
Status Date: 12/07/2011
Case Worker: DMG
RB Case Number: 01-2233
Local Agency: HAYWARD, CITY OF
File Location: Local Agency
Local Case Number: 01-2233
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0600102050
Contact Type: Local Agency Caseworker
Contact Name: DANILO M. GALANG
Organization Name: HAYWARD, CITY OF
Address: 777 B STREET
City: HAYWARD
Email: danny.galang@hayward-ca.gov
Phone Number: Not reported

Global Id: T0600102050
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

Global Id: T0600102050
Action Type: REMEDIATION
Date: 01/19/1996
Action: Other (Use Description Field)

Global Id: T0600102050
Action Type: REMEDIATION
Date: 04/15/1996
Action: Monitored Natural Attenuation

Global Id: T0600102050
Action Type: Other
Date: 10/05/1995
Action: Leak Discovery

Global Id: T0600102050
Action Type: Other
Date: 10/05/1995
Action: Leak Stopped

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

Global Id: T0600102050
Action Type: RESPONSE
Date: 12/01/2011
Action: Well Destruction Report

Global Id: T0600102050
Action Type: Other
Date: 01/19/1996
Action: Leak Reported

Global Id: T0600102050
Action Type: ENFORCEMENT
Date: 12/06/2011
Action: File Review - Closure

Global Id: T0600102050
Action Type: ENFORCEMENT
Date: 07/07/2011
Action: File Review - Closure - #5608976006

Global Id: T0600102050
Action Type: ENFORCEMENT
Date: 12/07/2011
Action: Closure/No Further Action Letter

LUST:

Global Id: T0600102050
Status: Completed - Case Closed
Status Date: 12/07/2011

Global Id: T0600102050
Status: Open - Case Begin Date
Status Date: 10/05/1995

Global Id: T0600102050
Status: Open - Site Assessment
Status Date: 06/17/1997

Global Id: T0600102050
Status: Open - Verification Monitoring
Status Date: 04/16/1996

Global Id: T0600102050
Status: Open - Verification Monitoring
Status Date: 07/21/2008

SWEEPS UST:

Status: Active
Comp Number: 60261
Number: 7
Board Of Equalization: 44-000943
Referral Date: 07-08-93
Action Date: 03-24-94
Created Date: 02-29-88
Owner Tank Id: 12

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

SWRCB Tank Id: 01-003-060261-000001
Tank Status: A
Capacity: 500
Active Date: 03-12-92
Tank Use: PETROLEUM
STG: P
Content: REGULAR UNLE
Number Of Tanks: 1

CA FID UST:

Facility ID: 01002916
Regulated By: UTNKA
Regulated ID: 00060261
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5107833522
Mail To: Not reported
Mailing Address: 21615 HESPERIAN
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94541
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01970008

NPDES:

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 180681
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 011001978
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 03/30/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Hayward City
Discharge Address: 20301 Skywest Dr
Discharge City: Hayward
Discharge State: California
Discharge Zip: 94541
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	180681
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	2 011001978
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	05/09/2008
PROCESSED DATE:	03/30/1992
STATUS CODE NAME:	Active
STATUS DATE:	03/30/1992
PLACE SIZE:	521
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	David Decoteau
FACILITY CONTACT TITLE:	Operations Supervisor
FACILITY CONTACT PHONE:	510-293-5462
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	sean.moran@hayward-ca.gov
OPERATOR NAME:	Hayward City
OPERATOR ADDRESS:	20301 Skywest Dr
OPERATOR CITY:	Hayward
OPERATOR STATE:	California
OPERATOR ZIP:	94541
OPERATOR CONTACT NAME:	David Decoteau
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	510-293-5462
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	David.Decoteau@hayward-ca.gov
OPERATOR TYPE:	Other
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	510-385-1103
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR TRAFFIC CONTROL TOWER (Continued)

S101580454

CONSTYPE OTHER DESCRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N
RECEIVING WATER NAME: Sulfur Creek
CERTIFIER NAME: Douglas McNeeley
CERTIFIER TITLE: Airport Manager
CERTIFICATION DATE: 08-JUN-15
PRIMARY SIC: 4581-Airports, Flying Fields, and Airport Terminal Services
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

84
West
1/2-1
0.613 mi.
3235 ft.

BAXALTA US INC
1978 W WINTON AVE
HAYWARD, CA 94545

RCRA-LQG **1000129861**
ENVIROSTOR **CAD981378250**
EMI
NPDES

Relative:
Lower

RCRA-LQG:

Date form received by agency: 02/16/2016
Facility name: BAXALTA US INC
Facility address: 1978 W WINTON AVE
HAYWARD, CA 94545
EPA ID: CAD981378250
Mailing address: W WINTON AVE
HAYWARD, CA 94545
Contact: DEEPA KUNDADKA
Contact address: W WINTON AVE
HAYWARD, CA 94545
Contact country: US
Contact telephone: 510-731-3514
Contact email: DEEPA.KUNDADKA@BAXALTA.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: BAXALTA US INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/2015
Owner/Op end date: Not reported

Owner/operator name: BAXALTA US INC
Owner/operator address: W WINTON AVE
HAYWARD, CA 94545

Owner/operator country: US
Owner/operator telephone: 510-731-3514
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/2015
Owner/Op end date: Not reported

Owner/operator name: BAXALTIA US INC
Owner/operator address: Not reported
Not reported

Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/01/2015
Owner/Op end date: Not reported

Owner/operator name: STEPHEN BLOCK
Owner/operator address: 1331 7TH ST STE C
BERLKELEY, CA 94710

Owner/operator country: US
Owner/operator telephone: 925-376-1300
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/01/1986
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: U002
- . Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

- . Waste code: U117
- . Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

- . Waste code: U123
- . Waste name: FORMIC ACID (C,T)

- . Waste code: U218
- . Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

- . Waste code: U236
- . Waste name: 2,7-NAPHTHALENEDISULFONIC ACID,3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT (OR) TRYPAN BLUE

- . Waste code: U246
- . Waste name: CYANOGEN BROMIDE (CN)BR

Historical Generators:

- Date form received by agency: 04/17/2015
Site name: BAXALTA US INC
Classification: Large Quantity Generator
- . Waste code: 122
 - . Waste name: Alkaline solution without metals (pH > 12.5)

 - . Waste code: 141
 - . Waste name: Off-specification, aged, or surplus inorganics

 - . Waste code: 181
 - . Waste name: Other inorganic solid waste

 - . Waste code: 212
 - . Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

- . Waste code: 214
- . Waste name: Unspecified solvent mixture

- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 352
- . Waste name: Other organic solids

- . Waste code: 551
- . Waste name: Laboratory waste chemicals

- . Waste code: 725
- . Waste name: Liquids with mercury > 20 mg/l

- . Waste code: 791
- . Waste name: Liquids with pH < 2

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: P030
- . Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U236
. Waste name: 2,7-NAPHTHALENEDISULFONIC ACID,3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT (OR) TRYPAN BLUE

Date form received by agency: 03/01/2014
Site name: BAXTER HEALTHCARE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

- . Waste code: U122
- . Waste name: FORMALDEHYDE

- . Waste code: U123
- . Waste name: FORMIC ACID (C,T)

- . Waste code: U154
- . Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

- . Waste code: U218
- . Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

- . Waste code: U219
- . Waste name: THIOUREA

- . Waste code: U236
- . Waste name: 2,7-NAPHTHALENEDISULFONIC ACID,3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT (OR) TRY PAN BLUE

- . Waste code: U244
- . Waste name: THIOPEROXYDICARBONIC DIAMIDE [(H2N)C(S)]2S2, TETRAMETHYL- (OR) THIRAM

- . Waste code: U246
- . Waste name: CYANOGEN BROMIDE (CN)BR

Date form received by agency: 01/11/1993
Site name: BAXTER HEALTHCARE HYLAND DIV
Classification: Small Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

- Waste code: D001
- Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- Amount (Lbs): 4119

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- Amount (Lbs): 8919

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 1174

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 1174

Waste code: D011
Waste name: SILVER
Amount (Lbs): 1174

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 3319

Waste code: U002
Waste name: ACETONE (I)
Amount (Lbs): 1174

Waste code: U117
Waste name: ETHANE, 1,1'-OXYBIS-(I)
Amount (Lbs): 1174

Waste code: U123
Waste name: FORMIC ACID (C,T)
Amount (Lbs): 1174

Waste code: U218
Waste name: ETHANETHIOAMIDE
Amount (Lbs): 1174

Waste code: U236
Waste name: 2,7-NAPHTHALENEDISULFONIC ACID, 3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT
Amount (Lbs): 1174

Waste code: U246
Waste name: CYANOGEN BROMIDE (CN)BR
Amount (Lbs): 1174

Violation Status: No violations found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

ENVIROSTOR:

Facility ID: 71002761
Status: No Further Action
Status Date: 03/19/1997
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.65244
Longitude: -122.1301
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: Under Investigation
Confirmed COC: 31001-NO
Potential Description: UE
Alias Name: CAD981378250
Alias Type: EPA Identification Number
Alias Name: 71002761
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/19/1997
Comments: Phase 1 indicates no further action. Followup by DTSC on March 19, 1997 concurs.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:

Year: 1993
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2831

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1996
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2831
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1997
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1998
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1999
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2000
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2002
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.849
Reactive Organic Gases Tons/Yr: 0.3407842
Carbon Monoxide Emissions Tons/Yr: 0.118
NOX - Oxides of Nitrogen Tons/Yr: 0.511
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0.013
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.012952

Year: 2005
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .849
Reactive Organic Gases Tons/Yr: .3407842
Carbon Monoxide Emissions Tons/Yr: .118
NOX - Oxides of Nitrogen Tons/Yr: .511
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .013
Part. Matter 10 Micrometers and Smlr Tons/Yr:.012952

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .85
Reactive Organic Gases Tons/Yr: .3416209
Carbon Monoxide Emissions Tons/Yr: .122
NOX - Oxides of Nitrogen Tons/Yr: .53
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .014
Part. Matter 10 Micrometers and Smlr Tons/Yr:.013928

Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .85
Reactive Organic Gases Tons/Yr: .3416209
Carbon Monoxide Emissions Tons/Yr: .122
NOX - Oxides of Nitrogen Tons/Yr: .53

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .014
Part. Matter 10 Micrometers and Smlr Tons/Yr.:013928

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.638
Reactive Organic Gases Tons/Yr: 1.0565618
Carbon Monoxide Emissions Tons/Yr: .118
NOX - Oxides of Nitrogen Tons/Yr: .517
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .012
Part. Matter 10 Micrometers and Smlr Tons/Yr.:011976

Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.8690000000000002
Reactive Organic Gases Tons/Yr: 1.1493985
Carbon Monoxide Emissions Tons/Yr: 0.129
NOX - Oxides of Nitrogen Tons/Yr: 0.5360000000000003
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0.014
Part. Matter 10 Micrometers and Smlr Tons/Yr.:1.3927999999999999E-2

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.8559999999999999
Reactive Organic Gases Tons/Yr: 1.5437618
Carbon Monoxide Emissions Tons/Yr: 0.123
NOX - Oxides of Nitrogen Tons/Yr: 0.5390000000000003
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0.0130491803278688
Part. Matter 10 Micrometers and Smlr Tons/Yr.:1.2999999999999999E-2

Year: 2011
County Code: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4.349
Reactive Organic Gases Tons/Yr: 1.7405251
Carbon Monoxide Emissions Tons/Yr: 0.116
NOX - Oxides of Nitrogen Tons/Yr: 0.501
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4.349
Reactive Organic Gases Tons/Yr: 1.7405251
Carbon Monoxide Emissions Tons/Yr: 0.116
NOX - Oxides of Nitrogen Tons/Yr: 0.501
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0.012024590164
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.012

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.939
Reactive Organic Gases Tons/Yr: 0.3787086
Carbon Monoxide Emissions Tons/Yr: 0.159
NOX - Oxides of Nitrogen Tons/Yr: 0.583
SOX - Oxides of Sulphur Tons/Yr: 0.002
Particulate Matter Tons/Yr: 0.013
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.013

Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2.222685024
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.133430101
NOX - Oxides of Nitrogen Tons/Yr: 0.615845627
SOX - Oxides of Sulphur Tons/Yr: 0.002259828
Particulate Matter Tons/Yr: 0.013226155
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.013142155

Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 7215
Air District Name: BA
SIC Code: 2835
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.022465459
Reactive Organic Gases Tons/Yr: 0.01502124
Carbon Monoxide Emissions Tons/Yr: 0.113660241
NOX - Oxides of Nitrogen Tons/Yr: 0.57403935
SOX - Oxides of Sulphur Tons/Yr: 0.002204425
Particulate Matter Tons/Yr: 0.011487217
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.011472774

NPDES:

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 455486
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 01NEC003296
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 06/01/2015
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Baxalta US Inc
Discharge Address: 1978 W Winton Ave
Discharge City: Hayward
Discharge State: California
Discharge Zip: 94545
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERCIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESCRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	2
Regulatory Measure Id:	455486
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	2 01NEC003296
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXALTA US INC (Continued)

1000129861

Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 06/12/2017
PROCESSED DATE: 06/01/2015
STATUS CODE NAME: Active
STATUS DATE: 06/12/2017
PLACE SIZE: 61033
PLACE SIZE UNIT: SqFt
FACILITY CONTACT NAME: Mohammed Samat
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: 510-731-3500
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: ishak.mohammed@baxalta.com
OPERATOR NAME: Baxalta US Inc
OPERATOR ADDRESS: 1978 W Winton Ave
OPERATOR CITY: Hayward
OPERATOR STATE: California
OPERATOR ZIP: 94545
OPERATOR CONTACT NAME: Mohammed Samat
OPERATOR CONTACT TITLE: Plant Manager
OPERATOR CONTACT PHONE: 510-731-3500
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: ishak.mohammed@baxalta.com
OPERATOR TYPE: Private Business
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: California
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: 510-731-3500
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERCIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESCRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BAXALTA US INC (Continued)

1000129861

RECEIVING WATER NAME: San Francisco Bay
 CERTIFIER NAME: Mohammad Samat
 CERTIFIER TITLE: Plant Manager
 CERTIFICATION DATE: 12-JUN-17
 PRIMARY SIC: 2836-Biological Products, Except Diagnostic Substances
 SECONDARY SIC: Not reported
 TERTIARY SIC: Not reported

**85
 NW
 1/2-1
 0.620 mi.
 3273 ft.**

**HAYWARD ARMY AIRFIELD
 HAYWARD, CA**

**FUDS 1007211948
 N/A**

**Relative:
 Lower**

FUDS:
 EPA Region: 09
 Congressional District: 15
 FUDS Number: J09CA0827
 State: CA
 Facility Name: HAYWARD ARMY AIRFIELD
 Fiscal Year: 2013
 City: HAYWARD
 Federal Facility ID: CA9799F5762
 Telephone: 916-557-7461
 INST ID: 57195
 County: ALAMEDA
 RAB: Not reported
 CORPS_DIST: Sacramento District (SPK)
 NPL Status: Not Listed
 CTC: 2604.5
 Current Owner: Local Government; Private Sector; State Government
 Future Prog: Not reported
 Description:

**Actual:
 25 ft.**

The site consisted of 727.125 acres and is located in the County of Alameda, two miles west of Hayward. As of 2000, the Hayward Executive Airport comprised 543 acres of aviation and non-aviation development, including the Hayward Air National Guard (HANG) Station located on the south side of the airport, the Skywest Golf Course in the northwestern portion of the Site, and a business park in the southwestern section. The HANG Station is on the Site but is not being addressed by the FUDS program because it is currently occupied by the Air National Guard. Various underground storage tanks (USTs) were utilized within the Hayward Army Airfield site by both the Army and other parties throughout the site's history. Most of these tanks were utilized by tenants and facilities after the Army had disposed of the property. Only four 25,000-gallon USTs were identified as having been installed and formerly used by the Army. These four 25,000-gallon fuel USTs appear to be associated with the four Fueling Pit Units. It is uncertain if these four USTs and fueling pits were used after the Army deactivation of the Hayward Army Airfield. It is not known if these tanks were removed or properly abandoned in place. Although all indication is that there was no ordnance and explosives (OE) stored or used at the site, the 1946 base map depicted a magazine area. No further information has been obtained regarding the magazine's use.

Current Program: Not reported
 History: The site was acquired by direct purchases or Declarations of Taking from private owners and the City of Hayward between 1942 and 1944. It was comprised of 727.125 acres, which consisted of 713.05 acres in fee, 14.02 acres in easement, and 0.055 acres in license. The U.S.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HAYWARD ARMY AIRFIELD (Continued)

1007211948

Army constructed the auxiliary airfield from 1942 to 1943, which was used by the U.S. Army Fourth Air Force as a sub-base of Hamilton Fighter Base and a military reservation. The Army constructed numerous buildings and improvements at the Hayward Army Airfield including but not limited to housing, barracks, a mess hall, a dispensary, lavatories, a school, shops, a fire station, a beacon tower, a storehouse, and runways and taxi aprons. The site was declared surplus on April 9, 1946 and was accepted by the WAA on December 20, 1946. On July 18, 1946, 22.17 acres were transferred to the Federal Public Housing Authority. On April 16, 1947, the Federal Government conveyed the property (690 acres) to the City of Hayward for public airport use. In a lease agreement dated February 1949, the City of Hayward leased 27 acres of the site to the California Air National Guard. Additional leases were executed between the City of Hayward Airport and various businesses, government agencies, and military agencies from the deactivation of the site by DoD to the present. Various areas of concern identified in the records review report include four fuel pit units (each with four fuel pits, 25,000-gallon tanks, and one truck fill station), a skeet range, paint shop, supply building, carpenter shop, chlorinator, incinerator, dispensary, fire station, storage buildings, gas storage, magazines, and a washing slab. Specific operations, equipment used, and waste disposal practices by the Army are not known.

Latitude Degree: 37
 Latitude Minute: 40
 Latitude Second: 37
 Latitude Direction: N
 Longitude Degree: -122
 Longitude Minute: 8
 Longitude Second: 39
 Longitude Direction: E

86
SW
1/2-1
0.645 mi.
3407 ft.

ELECTRO PLATING SPECIALTIES, INC.
2436 AMERICAN AVENUE
HAYWARD, CA 94545

RCRA-LQG **1000181774**
ENVIROSTOR **CAD990665903**
FINDS
ECHO
WDS

Relative:
Lower

RCRA-LQG:

Date form received by agency: 02/24/2016

Facility name: ELECTRO PLATING SPECIALTIES, INC.
 Facility address: 2436 AMERICAN AVENUE
 HAYWARD, CA 94545

EPA ID: CAD990665903
 Mailing address: AMERICAN AVENUE
 HAYWARD, CA 94545

Contact: MARY HALL
 Contact address: AMERICAN AVENUE
 HAYWARD, CA 94545

Contact country: US
 Contact telephone: 510-786-1881
 Contact email: EPS@EPS-PLATING.COM

EPA Region: 09
 Land type: Private

Classification: Large Quantity Generator
 Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: ELECTRO PLATING SPECIALTIES, INC.
Owner/operator address: AMERICAN AVENUE
HAYWARD, CA 94545
Owner/operator country: US
Owner/operator telephone: 510-786-1881
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/07/1976
Owner/Op end date: Not reported

Owner/operator name: ELECTRO PLATING SPECIALTIES, INC.
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/07/1976
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 181
. Waste name: Other inorganic solid waste

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

- . Waste code: 491
- . Waste name: Unspecified sludge waste

- . Waste code: 722
- . Waste name: Liquids with cadmium > 100 mg/l

- . Waste code: 723
- . Waste name: Liquids with chromium (VI) > 500 mg/l

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

- . Waste code: F008
- . Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Historical Generators:

Date form received by agency: 03/01/2014
Site name: ELECTRO PLATING SPECIALTIES, INC.
Classification: Large Quantity Generator

- . Waste code: 133
- . Waste name: Aqueous solution with 10% or more total organic residues

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 343
- . Waste name: Unspecified organic liquid mixture

- . Waste code: 491
- . Waste name: Unspecified sludge waste

- . Waste code: 711
- . Waste name: Liquids with cyanides > 1000 mg/l

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

- . Waste code: 722
- . Waste name: Liquids with cadmium > 100 mg/l

- . Waste code: 723
- . Waste name: Liquids with chromium (VI) > 500 mg/l

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Date form received by agency: 02/29/2012

Site name: ELECTRO PLATING SPECIALTIES, INC.

Classification: Large Quantity Generator

- . Waste code: 131
- . Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 711
- . Waste name: Liquids with cyanides > 1000 mg/l

- . Waste code: 791
- . Waste name: Liquids with pH < 2

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 05/27/2010

Site name: ELECTRO PLATING SPECIALTIES, INC.

Classification: Large Quantity Generator

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 491
. Waste name: Unspecified sludge waste

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/28/2008

Site name: ELECTRO PLATING SPECIALTIES, INC.

Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

- . Waste name: CADMIUM

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

- Date form received by agency: 02/27/2006
- Site name: ELECTRO PLATING SPECIALTIES, INC.
- Classification: Large Quantity Generator

- . Waste code: 121
- . Waste name: 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)

- . Waste code: 171
- . Waste name: Metal sludge (see 121)

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 491
- . Waste name: Unspecified sludge waste

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/27/2004
Site name: ELECTRO PLATING SPECIALTIES, INC.
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Date form received by agency: 06/13/2002

Site name: ELECTRO PLATING SPECIALTIES

Classification: Large Quantity Generator

- . Waste code: D000
- . Waste name: Not Defined

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

- . Waste code: F008
- . Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

- . Waste code: F009
- . Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/28/2002

Site name: ELECTRO PLATING SPECIALTIES, INC.

Classification: Large Quantity Generator

- . Waste code: 121
- . Waste name: 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)

- . Waste code: 132
- . Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

- . Waste code: 171
- . Waste name: Metal sludge (see 121)

- . Waste code: 711
- . Waste name: Liquids with cyanides > 1000 mg/l

- . Waste code: 722
- . Waste name: Liquids with cadmium > 100 mg/l

- . Waste code: 723
- . Waste name: Liquids with chromium (VI) > 500 mg/l

- . Waste code: 792
- . Waste name: Liquids with pH < 2 with metals

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D003
- . Waste name: REACTIVE WASTE

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: F006
- . Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

- . Waste code: F007
- . Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Date form received by agency: 10/12/2000

Site name: ELECTRO PLATING SPECIALTIES INC.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

Classification: Large Quantity Generator

Date form received by agency: 09/01/1996

Site name: ELECTRO PLATING SPECIALTIES

Classification: Small Quantity Generator

Date form received by agency: 02/29/1996

Site name: ELECTRO PLATING SPECIALTIES, INC.

Classification: Large Quantity Generator

Date form received by agency: 03/27/1992

Site name: ELECTRO PLATING SPECIALTIES

Classification: Large Quantity Generator

Date form received by agency: 04/13/1990

Site name: ELECTRO PLATING SPECIALTIES INC

Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 21005.6

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 3350

Waste code: D006

Waste name: CADMIUM

Amount (Lbs): 19525.7

Waste code: D007

Waste name: CHROMIUM

Amount (Lbs): 17655.6

Waste code: D008

Waste name: LEAD

Amount (Lbs): 15675.5

Waste code: F006

Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Amount (Lbs): 1600

Waste code: F008

Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

Amount (Lbs): 3350

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 05/20/2016
Date achieved compliance: 07/06/2016
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/20/2016
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 05/20/2016
Date achieved compliance: 06/17/2016
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/20/2016
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 05/20/2016
Date achieved compliance: 06/23/2016
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/20/2016
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 10/08/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

Date achieved compliance: 11/12/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/08/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/25/2007
Date achieved compliance: 10/18/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/25/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/20/2005
Date achieved compliance: 02/28/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/20/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/20/2005
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 01/08/1999
Date achieved compliance: 03/30/1999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/09/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 01/08/1999
Date achieved compliance: 03/30/1999
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/26/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/20/2016
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/06/2016
Evaluation lead agency: State

Evaluation date: 05/20/2016
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/23/2016
Evaluation lead agency: State

Evaluation date: 05/20/2016
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/17/2016
Evaluation lead agency: State

Evaluation date: 10/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/12/2009
Evaluation lead agency: State

Evaluation date: 09/25/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/18/2007
Evaluation lead agency: State

Evaluation date: 09/20/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 09/20/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/28/2006
Evaluation lead agency: Local

Evaluation date: 01/08/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/30/1999
Evaluation lead agency: EPA

ENVIROSTOR:

Facility ID: 71003192
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.64654
Longitude: -122.1274
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD990665903
Alias Type: EPA Identification Number
Alias Name: 110000861381
Alias Type: EPA (FRS #)
Alias Name: 71003192
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110000861381

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include;

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000181774
Registry ID: 110000861381
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000861381>

WDS:

Facility ID: San Francisco Bay 011017306
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5107861881
Facility Contact: MARK WALLACE
Agency Name: ELECTRO PLATING SPECIALTIES
Agency Address: 2436 American Ave
Agency City,St,Zip: Hayward 945451882
Agency Contact: MARK WALLACE
Agency Telephone: 5107861881
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRO PLATING SPECIALTIES, INC. (Continued)

1000181774

dairy waste ponds.

87
WSW
1/2-1
0.671 mi.
3543 ft.

PENTAGON TECHNOLOGIES INC
21031 ALEXANDER COURT
HAYWARD, CA 94545

RCRA-LQG 1000856972
ENVIROSTOR CA0000010835
FINDS
ECHO
EMI

Relative:
Lower

RCRA-LQG:

Date form received by agency: 02/10/2016

Facility name: PENTAGON TECHNOLOGIES INC.

Facility address: 21031 ALEXANDER COURT
HAYWARD, CA 94545

EPA ID: CA0000010835

Mailing address: ALEXANDER COURT
HAYWARD, CA 94545

Contact: GALINA KOFMAN

Contact address: ALEXANDER COURT
HAYWARD, CA 94545

Contact country: US

Contact telephone: 510-783-5050

Telephone ext.: 2127

Contact email: GKOFMAN@PEN-TEC.COM

EPA Region: 09

Land type: Private

Classification: Large Quantity Generator

Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: PENTAGON TECHNOLOGIES INC.

Owner/operator address: ALEXANDER COURT
HAYWARD, CA 94545

Owner/operator country: US

Owner/operator telephone: 510-783-5050

Owner/operator email: Not reported

Owner/operator fax: Not reported

Owner/operator extension: 2127

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 09/24/1994

Owner/Op end date: Not reported

Owner/operator name: KENNY AQUAR

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/11/2015
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 272
. Waste name: Polymeric resin waste

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Historical Generators:

Date form received by agency: 03/01/2014
Site name: PENTAGON TECHNOLOGIES INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 03/01/2012
Site name: PENTAGON TECHNOLOGIES
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 04/08/2010
Site name: PENTAGON TECHNOLOGIES
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 03/26/2008
Site name: PENTAGON TECHNOLOGIES
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/14/2006

Site name: PENTAGON TECHNOLOGIES

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/26/2004

Site name: PENTAGON TECHNOLOGIES

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/28/2002
Site name: PENTAGON TECHNOLOGIES
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: CHEMETAL
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: CHEMETAL, INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CHEMETAL INC
Classification: Small Quantity Generator

Date form received by agency: 02/07/1996
Site name: CHEMETAL, INC.
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 4084.1

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 6985.2

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 3234.1

Waste code: F006

Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Amount (Lbs): 223490

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 12/08/2016
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/08/2016
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/23/2008
Date achieved compliance: 09/23/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/23/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 09/23/2008
Date achieved compliance: 10/28/2008
Violation lead agency: EPA
Enforcement action: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Enforcement action date: 10/31/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 12/08/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/23/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/23/2008
Evaluation lead agency: State

Evaluation date: 09/23/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 10/28/2008
Evaluation lead agency: EPA

Evaluation date: 11/08/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/27/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

ENVIROSTOR:

Facility ID: 71003559
Status: No Further Action
Status Date: 09/19/2000
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.65195
Longitude: -122.1315
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: Under Investigation
Confirmed COC: 31001-NO
Potential Description: UE
Alias Name: CA0000010835
Alias Type: EPA Identification Number
Alias Name: 110000781173
Alias Type: EPA (FRS #)
Alias Name: 71003559
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 09/19/2000
Comments: DTSC determined that this site is not subject to corrective action.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110000781173

Environmental Interest/Information System

AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

ICIS (Integrated Compliance Information System) is the Integrated

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000856972
Registry ID: 110000781173
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000781173>

EMI:

Year: 1995
County Code: 1
Air Basin: SF
Facility ID: 9184
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 1996
County Code: 1
Air Basin: SF
Facility ID: 9184
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1997
County Code: 1
Air Basin: SF
Facility ID: 9184
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1998
County Code: 1
Air Basin: SF
Facility ID: 9184
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 1999
County Code: 1
Air Basin: SF
Facility ID: 9184
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2000
County Code: 1
Air Basin: SF
Facility ID: 9184

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smllr Tons/Yr:1

Year: 2001
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smllr Tons/Yr:1

Year: 2002
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.618
Reactive Organic Gases Tons/Yr: 0.2476367
Carbon Monoxide Emissions Tons/Yr: 0.002
NOX - Oxides of Nitrogen Tons/Yr: 0.007
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.03
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.027996

Year: 2005
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .617
Reactive Organic Gases Tons/Yr: .2468
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .004
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .006
Part. Matter 10 Micrometers and Smllr Tons/Yr:.0054

Year: 2006
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.281
Reactive Organic Gases Tons/Yr: .5128367
Carbon Monoxide Emissions Tons/Yr: .002
NOX - Oxides of Nitrogen Tons/Yr: .007
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .007
Part. Matter 10 Micrometers and Smllr Tons/Yr:.006376

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.762
Reactive Organic Gases Tons/Yr: .7052367
Carbon Monoxide Emissions Tons/Yr: .002
NOX - Oxides of Nitrogen Tons/Yr: .007
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .011
Part. Matter 10 Micrometers and Smlr Tons/Yr:.009976

Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.937
Reactive Organic Gases Tons/Yr: .7752367
Carbon Monoxide Emissions Tons/Yr: .002
NOX - Oxides of Nitrogen Tons/Yr: .007
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .008
Part. Matter 10 Micrometers and Smlr Tons/Yr:.007276

Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.966
Reactive Organic Gases Tons/Yr: 0.78683670000000006
Carbon Monoxide Emissions Tons/Yr: 0.002
NOX - Oxides of Nitrogen Tons/Yr: 7.0000000000000001E-3
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 8.9999999999999993E-3
Part. Matter 10 Micrometers and Smlr Tons/Yr:8.1759999999999992E-3

Year: 2010
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.966
Reactive Organic Gases Tons/Yr: 0.7868367000000006
Carbon Monoxide Emissions Tons/Yr: 0.002
NOX - Oxides of Nitrogen Tons/Yr: 7.000000000000001E-3
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1.9913479052823299E-2
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.799999999999999E-2

Year: 2011
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.932
Reactive Organic Gases Tons/Yr: 0.7728
Carbon Monoxide Emissions Tons/Yr: 0.001
NOX - Oxides of Nitrogen Tons/Yr: 0.005
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2012
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.962
Reactive Organic Gases Tons/Yr: 0.7848
Carbon Monoxide Emissions Tons/Yr: 0.001
NOX - Oxides of Nitrogen Tons/Yr: 0.005
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.0122222222222
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.011

Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 12753
Air District Name: BA
SIC Code: 8999
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.863
Reactive Organic Gases Tons/Yr: 0.7452
Carbon Monoxide Emissions Tons/Yr: 0

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PENTAGON TECHNOLOGIES INC (Continued)

1000856972

NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0.023
 Part. Matter 10 Micrometers and Smlr Tons/Yr:0.01

Year: 2014
 County Code: 1
 Air Basin: SF
 Facility ID: 12753
 Air District Name: BA
 SIC Code: 8999
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 1.969089312
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0.00102
 NOX - Oxides of Nitrogen Tons/Yr: 0.004691783
 SOX - Oxides of Sulphur Tons/Yr: 2.175e-006
 Particulate Matter Tons/Yr: 0.023397806
 Part. Matter 10 Micrometers and Smlr Tons/Yr:0.01143402

Year: 2015
 County Code: 1
 Air Basin: SF
 Facility ID: 12753
 Air District Name: BA
 SIC Code: 8999
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 1.932476338
 Reactive Organic Gases Tons/Yr: 1.932476329
 Carbon Monoxide Emissions Tons/Yr: 1.02e-006
 NOX - Oxides of Nitrogen Tons/Yr: 4.692e-006
 SOX - Oxides of Sulphur Tons/Yr: 2e-009
 Particulate Matter Tons/Yr: 0.023046052
 Part. Matter 10 Micrometers and Smlr Tons/Yr:0.011097

88
SSW
1/2-1
0.808 mi.
4267 ft.

CONTINENTAL WHITE CAP PLT 144
24493 CLAWITER RD
HAYWARD, CA 94545

ENVIROSTOR 1000412900
LUST CAD0041837659
SLIC
SWEEPS UST
HIST UST
CA FID UST
RCRA NonGen / NLR
HIST CORTESE

Relative:
Lower

Actual:
27 ft.

ENVIROSTOR:
 Facility ID: 1280080
 Status: Refer: RWQCB
 Status Date: 07/29/1994
 Site Code: Not reported
 Site Type: Historical
 Site Type Detailed: * Historical
 Acres: Not reported
 NPL: NO
 Regulatory Agencies: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.64183
Longitude: -122.1217
APN: 439-20-2-4
Past Use: NONE SPECIFIED
Potential COC: * HYDROCARBON SOLVENTS * CONTAMINATED SOIL
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:

Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101740
Global Id: T0600101740
Latitude: 37.641522229
Longitude: -122.120192
Status: Completed - Case Closed
Status Date: 04/21/2010
Case Worker: Not reported
RB Case Number: 01-1877
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water), Under Investigation
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: See SCP case No. 01S0534 - same property This case is closed administratively on 4/21/2010. The LUST is addressed as part of the SCP case #01S0534.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

LUST:

Global Id: T0600101740
Action Type: Other
Date: 11/30/1988
Action: Leak Stopped

Global Id: T0600101740
Action Type: Other
Date: 11/30/1988
Action: Leak Reported

Global Id: T0600101740
Action Type: ENFORCEMENT
Date: 01/14/2010
Action: File Review - Closure

Global Id: T0600101740
Action Type: Other
Date: 11/30/1988
Action: Leak Discovery

LUST:

Global Id: T0600101740
Status: Completed - Case Closed
Status Date: 04/21/2010

Global Id: T0600101740
Status: Open - Case Begin Date
Status Date: 11/30/1988

Global Id: T0600101740
Status: Open - Inactive
Status Date: 07/29/2009

Global Id: T0600101740
Status: Open - Site Assessment
Status Date: 08/30/1996

SLIC:

Region: STATE
Facility Status: **Open - Verification Monitoring**
Status Date: 06/07/2016
Global Id: T0600191551
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: 01S0534
Latitude: 37.641754
Longitude: -122.121824
Case Type: Cleanup Program Site
Case Worker: NF
Local Agency: Not reported
RB Case Number: 01S0534
File Location: Regional Board
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: * Solvents
Site History: From 1963 to 1997, White Cap (formerly Continental White Cap)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

manufactured container closures at 24493 Clawiter Road. The manufactured products consisted of metal caps, typically for glass food and beverage containers. Hazardous materials were managed and released during this period, including paint thinners. The site is currently operated by Con-X-Tech to fabricate structural steel. Areas of soil impact were primarily associated with releases of paint thinners from six underground tanks and a dry sump. Shallow groundwater was impacted in the areas of soil contamination, extending a short distance in the direction of groundwater flow (southwest). Chemicals of concern include xylenes and ethylbenzene. In 1990 and 1991, White Cap removed all six underground tanks and the dry sump from the site and overexcavated contaminated soil. Since 1991, White Cap has operated soil vapor and groundwater extraction and treatment systems. Since 2000, the White Cap has conducted insitu (in-place) bioremediation treatment at various portions of the site. White Cap continues to operate soil vapor and groundwater extraction and treatment systems, along with insitu bioremediation systems, at the release areas on the northern portion of the site. White Cap continues to conduct periodic monitoring at the site. It is expected that these activities will continue until drinking water standards are reestablished in onsite groundwater and Water Board concurrence is provided to terminate treatment and monitoring. Treatment activities are anticipated to be completed in 2011.

[Click here to access the California GeoTracker records for this facility:](#)

SWEEPS UST:

Status: Active
Comp Number: 705
Number: 1
Board Of Equalization: 44-000781
Referral Date: 07-08-93
Action Date: 05-05-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000008
Tank Status: A
Capacity: 4000
Active Date: 01-14-93
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 705
Number: 1
Board Of Equalization: 44-000781
Referral Date: 07-08-93
Action Date: 05-05-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000009
Tank Status: A
Capacity: 3000
Active Date: 01-14-93
Tank Use: CHEMICAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

STG: P
Content: CHEMICAL PRO
Number Of Tanks: Not reported

Status: Active
Comp Number: 705
Number: 1
Board Of Equalization: 44-000781
Referral Date: 07-08-93
Action Date: 05-05-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000007
Tank Status: A
Capacity: 4000
Active Date: 01-14-93
Tank Use: CHEMICAL
STG: W
Content: NON CHLORINA
Number Of Tanks: 3

Status: Not reported
Comp Number: 705
Number: Not reported
Board Of Equalization: 44-000781
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: REGULAR UNLE
Number Of Tanks: 6

Status: Not reported
Comp Number: 705
Number: Not reported
Board Of Equalization: 44-000781
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 705

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

Number: Not reported
Board Of Equalization: 44-000781
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: 15FR70 SOLVE
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 705
Number: Not reported
Board Of Equalization: 44-000781
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000004
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: 15FR70 SOLVE
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 705
Number: Not reported
Board Of Equalization: 44-000781
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-003-000705-000005
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: WASTE SOLVEN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 705
Number: Not reported
Board Of Equalization: 44-000781
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

SWRCB Tank Id: 01-003-000705-000006
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: WASTE 365 SO
Number Of Tanks: Not reported

HIST UST:

File Number: 00035EBA
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035EBA.pdf>
Region: STATE
Facility ID: 00000000705
Facility Type: Other
Other Type: CLOSURE MANUFACTURER
Contact Name: H. RICKARD HALPIN, PLT. MGR.
Telephone: 4157831600
Owner Name: CONTINENTAL WHITE CAP, INC.
Owner Address: 2215 SANDERS ROAD
Owner City,St,Zip: NORTHBROOK, IL 60062
Total Tanks: 0005

Tank Num: 001
Container Num: 1
Year Installed: 1963
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None

Tank Num: 002
Container Num: 2
Year Installed: 1963
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None

Tank Num: 003
Container Num: 3
Year Installed: 1963
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1975
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

Leak Detection: Stock Inventor, None

Tank Num: 005
Container Num: 5
Year Installed: 1975
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

CA FID UST:

Facility ID: 01001875
Regulated By: UTNKA
Regulated ID: CAD041837
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156701600
Mail To: Not reported
Mailing Address: 24493 CLAWITER RD
Mailing Address 2: Not reported
Mailing City,St,Zip: HAYWARD 94545
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

RCRA NonGen / NLR:

Date form received by agency: 11/26/1999
Facility name: CONTINENTAL WHITE CAP PLT 144
Facility address: 24493 CLAWITER RD
HAYWARD, CA 94545

EPA ID: CAD041837659
Mailing address: PO BOX 3337
HAYWARD, CA 94545

Contact: Not reported
Contact address: Not reported
Not reported

Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CONTINENTAL GROUP INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/04/1999
Site name: WHITE CAP, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/29/1996
Site name: WHITE CAP INC.
Classification: Large Quantity Generator

Date form received by agency: 03/09/1994
Site name: WHITE CAP INC.
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992
Site name: CONTINENTAL WHITE CAP PLANT 14
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONTINENTAL WHITE CAP PLT 144 (Continued)

1000412900

Date form received by agency: 03/16/1990
Site name: CONTINENTAL WHITE CAP PLANT 144
Classification: Large Quantity Generator

Date form received by agency: 08/11/1980
Site name: CONTINENTAL WHITE CAP PLT 144
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/15/1986
Date achieved compliance: 08/15/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 08/15/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/15/1991
Evaluation lead agency: State Contractor/Grantee

HIST CORTESE:

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1877

89
West
1/2-1
0.830 mi.
4384 ft.

A C TRANSIT - HAYWARD TRAINING CENTER
20234 MACK STREET
HAYWARD, CA 94545

ENVIROSTOR S105034682
SLIC N/A

Relative:
Lower

ENVIROSTOR:

Facility ID: 1410117
Status: Refer: RWQCB
Status Date: 07/29/1994
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 20

Actual:
18 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A C TRANSIT - HAYWARD TRAINING CENTER (Continued)

S105034682

Senate: 10
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.65464
Longitude: -122.1335
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS Lead Mercury and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC REG 2:

Region: 2
Facility ID: 01S0023
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

90
South
1/2-1
0.892 mi.
4710 ft.

XEROX CORPORATION
24600 INDUSTRIAL BLVD
HAYWARD, CA 94545

RCRA-SQG 1000344169
ENVIROSTOR CAD982470023
FINDS
ECHO
HAZNET

Relative:
Lower

RCRA-SQG:

Date form received by agency: 05/12/1990
Facility name: XEROX CORPORATION
Site name: XEROX CORP
Facility address: 24600 INDUSTRIAL BLVD
HAYWARD, CA 94545
EPA ID: CAD982470023
Contact: GEORGE J LECHNER
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 415-732-3310
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Actual:
30 ft.

Owner/Operator Summary:

Owner/operator name: XEROX CORPORATION
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XEROX CORPORATION (Continued)

1000344169

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/28/1989
Site name: XEROX CORPORATION
Classification: Small Quantity Generator

Violation Status: No violations found

ENVIROSTOR:

Facility ID: 1270023
Status: No Further Action
Status Date: 09/18/1997
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 20
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.64082
Longitude: -122.1183
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XEROX CORPORATION (Continued)

1000344169

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002819512

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000344169
Registry ID: 110002819512
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002819512>

HAZNET:

envid: 1000344169
Year: 1997
GEPaid: CAD982470023
Contact: LEASEE XEROX CORP
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: ENVIRONMENTAL HEALTH & SAFETY
Mailing City,St,Zip: WEBSTER, NY 145809701
Gen County: Not reported
TSD EPA ID: AZD982441263
TSD County: Not reported
Waste Category: Gas scrubber waste
Disposal Method: Treatment, Incineration
Tons: 4.0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: 1000344169
Year: 1997
GEPaid: CAD982470023
Contact: LEASEE XEROX CORP
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: ENVIRONMENTAL HEALTH & SAFETY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XEROX CORPORATION (Continued)

1000344169

Mailing City,St,Zip: WEBSTER, NY 145809701
Gen County: Not reported
TSD EPA ID: CAD009452657
TSD County: Not reported
Waste Category: Not reported
Disposal Method: Recycler
Tons: .0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: 1000344169
Year: 1997
GEPaid: CAD982470023
Contact: LEASEE XEROX CORP
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: ENVIRONMENTAL HEALTH & SAFETY
Mailing City,St,Zip: WEBSTER, NY 145809701
Gen County: Not reported
TSD EPA ID: CAD009452657
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Not reported
Tons: 1.5137
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

envid: 1000344169
Year: 1997
GEPaid: CAD982470023
Contact: LEASEE XEROX CORP
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: ENVIRONMENTAL HEALTH & SAFETY
Mailing City,St,Zip: WEBSTER, NY 145809701
Gen County: Not reported
TSD EPA ID: AZD982441263
TSD County: Not reported
Waste Category: Gas scrubber waste
Disposal Method: Not reported
Tons: .9000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: 1

Count: 2 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
HAYWARD	1003878524	BAY CITIES RUBBISH DSPL CO	FOOT OF W WINTON AVE	94541	SEMS-ARCHIVE
HAYWARD	S106784865	CITY OF HAYWARD OLIVER PROPERTY	0 INDUSTRIAL WY & HESPERIAN BL	94545	Alameda County CS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/30/2017	Source: EPA
Date Data Arrived at EDR: 06/08/2017	Telephone: N/A
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/30/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: N/A
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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.

Date of Government Version: 05/30/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: N/A
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 10/06/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/11/2017	Source: EPA
Date Data Arrived at EDR: 07/21/2017	Telephone: 800-424-9346
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/29/2018
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates 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 the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

Date of Government Version: 07/11/2017	Source: EPA
Date Data Arrived at EDR: 07/28/2017	Telephone: 800-424-9346
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 70	Next Scheduled EDR Contact: 01/29/2018
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2017	Source: EPA
Date Data Arrived at EDR: 09/26/2017	Telephone: 800-424-9346
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: (415) 495-8895
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: (415) 495-8895
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: (415) 495-8895
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: (415) 495-8895
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017	Source: Department of the Navy
Date Data Arrived at EDR: 06/13/2017	Telephone: 843-820-7326
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/08/2017
Number of Days to Update: 94	Next Scheduled EDR Contact: 02/26/2018
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/10/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/30/2017	Telephone: 703-603-0695
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 08/30/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/10/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/30/2017	Telephone: 703-603-0695
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 08/30/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2017

Date Data Arrived at EDR: 09/21/2017

Date Made Active in Reports: 10/13/2017

Number of Days to Update: 22

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/21/2017

Next Scheduled EDR Contact: 01/08/2018

Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/31/2017

Date Data Arrived at EDR: 08/01/2017

Date Made Active in Reports: 08/15/2017

Number of Days to Update: 14

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 10/31/2017

Next Scheduled EDR Contact: 02/12/2018

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/31/2017

Date Data Arrived at EDR: 08/01/2017

Date Made Active in Reports: 08/15/2017

Number of Days to Update: 14

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 10/31/2017

Next Scheduled EDR Contact: 02/12/2018

Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/14/2017

Date Data Arrived at EDR: 08/17/2017

Date Made Active in Reports: 09/21/2017

Number of Days to Update: 35

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 11/14/2017

Next Scheduled EDR Contact: 02/26/2018

Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/12/2017	Telephone: see region list
Date Made Active in Reports: 11/09/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 58	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/12/2017	Telephone: 866-480-1028
Date Made Active in Reports: 11/09/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 58	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/11/2017	Source: SWRCB
Date Data Arrived at EDR: 09/12/2017	Telephone: 916-341-5851
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 09/25/2017
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-7591
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2017	Source: EPA Region 7
Date Data Arrived at EDR: 07/27/2017	Telephone: 913-551-7003
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/25/2017	Source: EPA Region 10
Date Data Arrived at EDR: 07/27/2017	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/14/2017	Source: EPA, Region 1
Date Data Arrived at EDR: 07/27/2017	Telephone: 617-918-1313
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/01/2017	Source: EPA Region 8
Date Data Arrived at EDR: 07/27/2017	Telephone: 303-312-6137
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/13/2017	Source: EPA Region 9
Date Data Arrived at EDR: 07/27/2017	Telephone: 415-972-3368
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/26/2017	Source: EPA Region 5
Date Data Arrived at EDR: 07/27/2017	Telephone: 312-886-6136
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/31/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/01/2017	Telephone: 916-323-3400
Date Made Active in Reports: 08/15/2017	Last EDR Contact: 10/31/2017
Number of Days to Update: 14	Next Scheduled EDR Contact: 02/12/2018
	Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/25/2017
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/21/2017	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2017	Telephone: 916-323-7905
Date Made Active in Reports: 11/09/2017	Last EDR Contact: 09/21/2017
Number of Days to Update: 49	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/19/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/20/2017	Telephone: 202-566-2777
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 09/20/2017
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 11/06/2017
Number of Days to Update: 30	Next Scheduled EDR Contact: 02/19/2018
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 9

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 05/31/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 76

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/09/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/30/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/20/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 08/18/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/02/2017	Source: Department of Public Health
Date Data Arrived at EDR: 06/06/2017	Telephone: 707-463-4466
Date Made Active in Reports: 08/25/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 80	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/31/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/05/2017	Telephone: 916-323-3400
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 08/31/2017
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2017	Telephone: 202-564-6023
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The 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 deed restrictions that are active. Some sites have multiple deed restrictions. The 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.

Date of Government Version: 09/05/2017	Source: DTSC and SWRCB
Date Data Arrived at EDR: 09/06/2017	Telephone: 916-323-3400
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/21/2017	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/21/2017	Telephone: 202-366-4555
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 09/21/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/09/2017	Source: Office of Emergency Services
Date Data Arrived at EDR: 07/26/2017	Telephone: 916-845-8400
Date Made Active in Reports: 09/21/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017	Source: State Water Quality Control Board
Date Data Arrived at EDR: 09/12/2017	Telephone: 866-480-1028
Date Made Active in Reports: 11/09/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 58	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/12/2017	Telephone: 866-480-1028
Date Made Active in Reports: 11/09/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 58	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: (415) 495-8895
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 08/25/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/13/2017
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/11/2017
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/10/2017
Date Data Arrived at EDR: 05/17/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 121

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/22/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/23/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/27/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 8

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/03/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/19/2018
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/13/2017
Number of Days to Update: 126	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 10/11/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/16/2017
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/20/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 10/03/2017
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/08/2017
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/26/2017
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/05/2017	Telephone: 202-343-9775
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/05/2017
Number of Days to Update: 8	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/02/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 98

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 07/31/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/01/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/01/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by 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 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.

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 24

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 9

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/06/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 261

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/06/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2016	Source: Department of Defense
Date Data Arrived at EDR: 06/02/2017	Telephone: 703-704-1564
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/16/2017
Number of Days to Update: 133	Next Scheduled EDR Contact: 01/29/2018
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/17/2017	Source: EPA
Date Data Arrived at EDR: 08/17/2017	Telephone: 800-385-6164
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 08/17/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/21/2017	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 09/21/2017	Telephone: 916-323-3400
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 09/21/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/02/2017	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/08/2017	Telephone: 916-327-4498
Date Made Active in Reports: 10/16/2017	Last EDR Contact: 08/08/2017
Number of Days to Update: 69	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2015	Source: California Air Resources Board
Date Data Arrived at EDR: 03/21/2017	Telephone: 916-322-2990
Date Made Active in Reports: 08/15/2017	Last EDR Contact: 09/22/2017
Number of Days to Update: 147	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/18/2017	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/22/2017	Telephone: 916-445-9379
Date Made Active in Reports: 10/24/2017	Last EDR Contact: 11/01/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/21/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/25/2017	Telephone: 916-255-3628
Date Made Active in Reports: 10/17/2017	Last EDR Contact: 10/23/2017
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/15/2017	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 08/22/2017	Telephone: 916-341-6066
Date Made Active in Reports: 10/25/2017	Last EDR Contact: 11/09/2017
Number of Days to Update: 64	Next Scheduled EDR Contact: 02/26/2018
	Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2017	Telephone: 916-255-1136
Date Made Active in Reports: 10/17/2017	Last EDR Contact: 10/10/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/21/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/22/2017	Telephone: 877-786-9427
Date Made Active in Reports: 10/25/2017	Last EDR Contact: 08/22/2017
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/21/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/22/2017	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2017	Last EDR Contact: 08/22/2017
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/10/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/10/2017	Telephone: 916-440-7145
Date Made Active in Reports: 10/17/2017	Last EDR Contact: 10/10/2017
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/11/2017	Source: Department of Conservation
Date Data Arrived at EDR: 09/12/2017	Telephone: 916-322-1080
Date Made Active in Reports: 11/01/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/01/2017	Source: Department of Public Health
Date Data Arrived at EDR: 09/06/2017	Telephone: 916-558-1784
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/14/2017	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/17/2017	Telephone: 916-445-9379
Date Made Active in Reports: 10/17/2017	Last EDR Contact: 11/14/2017
Number of Days to Update: 61	Next Scheduled EDR Contact: 02/26/2018
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/05/2017	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 09/06/2017	Telephone: 916-445-4038
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 10/18/2017
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/16/2017
Date Data Arrived at EDR: 06/20/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 119

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/12/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board's review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 09/22/2017
Date Data Arrived at EDR: 09/22/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 18

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/11/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/15/2017
Date Made Active in Reports: 11/14/2017
Number of Days to Update: 60

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 08/31/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 08/31/2017
Date Data Arrived at EDR: 09/05/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 64

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/05/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List Cupa facility list.

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 69

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/17/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/25/2017
Number of Days to Update: 64

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/30/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List Cupa Facility list

Date of Government Version: 10/31/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 11/14/2017
Number of Days to Update: 13

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List CUPA facility list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/18/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 63

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/30/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/03/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 10/25/2017
Date Data Arrived at EDR: 10/27/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 19

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/03/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 69

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 10/23/2017
Date Data Arrived at EDR: 10/24/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 22

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INYO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

Cupa facility list.

Date of Government Version: 06/08/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 56

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 44

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 09/22/2017
Date Data Arrived at EDR: 09/22/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 24

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/09/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 5

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 07/24/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 82

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

LOS ANGELES COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/11/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 5

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/17/2017
Date Data Arrived at EDR: 07/18/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 65

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/17/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 10/09/2017
Number of Days to Update: 171

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 06/21/2017
Date Data Arrived at EDR: 06/23/2017
Date Made Active in Reports: 10/30/2017
Number of Days to Update: 129

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/14/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 69

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 10/26/2017
Date Data Arrived at EDR: 10/27/2017
Date Made Active in Reports: 11/06/2017
Number of Days to Update: 10

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 09/28/2017
Date Data Arrived at EDR: 10/05/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 34

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 10/02/2017
Date Data Arrived at EDR: 10/03/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 14

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 40

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/08/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/22/2017
Date Data Arrived at EDR: 06/23/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 47

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 08/24/2017
Date Data Arrived at EDR: 08/25/2017
Date Made Active in Reports: 10/27/2017
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 8

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/11/2017
Number of Days to Update: 61

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 41

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/07/2017	Source: Health Care Agency
Date Data Arrived at EDR: 08/09/2017	Telephone: 714-834-3446
Date Made Active in Reports: 09/21/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/19/2018
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/05/2017	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 09/06/2017	Telephone: 530-745-2363
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 08/31/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 10/23/2017	Source: Plumas County Environmental Health
Date Data Arrived at EDR: 11/03/2017	Telephone: 530-283-6355
Date Made Active in Reports: 11/15/2017	Last EDR Contact: 11/01/2017
Number of Days to Update: 12	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/11/2017	Source: Department of Environmental Health
Date Data Arrived at EDR: 10/12/2017	Telephone: 951-358-5055
Date Made Active in Reports: 11/09/2017	Last EDR Contact: 09/18/2017
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/12/2017	Source: Department of Environmental Health
Date Data Arrived at EDR: 10/12/2017	Telephone: 951-358-5055
Date Made Active in Reports: 11/08/2017	Last EDR Contact: 09/18/2017
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/02/2017
Date Data Arrived at EDR: 10/03/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 3

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2017
Date Data Arrived at EDR: 10/03/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 44

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 66

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/31/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 58

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/05/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 63

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/06/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/31/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/03/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 109

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 10/03/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 4

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 08/28/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/18/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/25/2017
Number of Days to Update: 64

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SAN MATEO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/15/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 28

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/07/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/15/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 51

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/07/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/10/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 67

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/15/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 70

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 09/27/2017
Date Made Active in Reports: 11/10/2017
Number of Days to Update: 44

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 09/27/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 42

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List

Cupa Facility list

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/27/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 50

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/03/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 11/10/2017
Number of Days to Update: 35

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/01/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 6

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/31/2017
Date Data Arrived at EDR: 09/05/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 64

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 08/31/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 07/19/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 66

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 10/23/2017
Date Data Arrived at EDR: 10/24/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

TULARE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

Cupa program facilities

Date of Government Version: 09/27/2017
Date Data Arrived at EDR: 09/28/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 18

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 10/24/2017
Date Data Arrived at EDR: 10/25/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 22

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/26/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 74

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/08/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/26/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 75

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/28/2017	Source: Environmental Health Division
Date Data Arrived at EDR: 09/12/2017	Telephone: 805-654-2813
Date Made Active in Reports: 09/21/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 09/27/2017	Source: Yolo County Department of Health
Date Data Arrived at EDR: 10/02/2017	Telephone: 530-666-8646
Date Made Active in Reports: 11/14/2017	Last EDR Contact: 09/27/2017
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 11/08/2017	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 11/10/2017	Telephone: 530-749-7523
Date Made Active in Reports: 11/16/2017	Last EDR Contact: 10/25/2017
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/12/2018
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/28/2017	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/18/2017	Telephone: 860-424-3375
Date Made Active in Reports: 11/14/2017	Last EDR Contact: 11/14/2017
Number of Days to Update: 88	Next Scheduled EDR Contact: 02/26/2018
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/11/2017	Telephone: N/A
Date Made Active in Reports: 07/27/2017	Last EDR Contact: 10/05/2017
Number of Days to Update: 107	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/11/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HAYWARD FIRE STATION #6
1401 WEST WINTON AVENUE
HAYWARD, CA 94545

TARGET PROPERTY COORDINATES

Latitude (North):	37.654304 - 37° 39' 15.49"
Longitude (West):	122.117651 - 122° 7' 3.54"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	577832.8
UTM Y (Meters):	4167621.8
Elevation:	41 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640616 HAYWARD, CA
Version Date:	2012

Northwest Map:	5641120 SAN LEANDRO, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

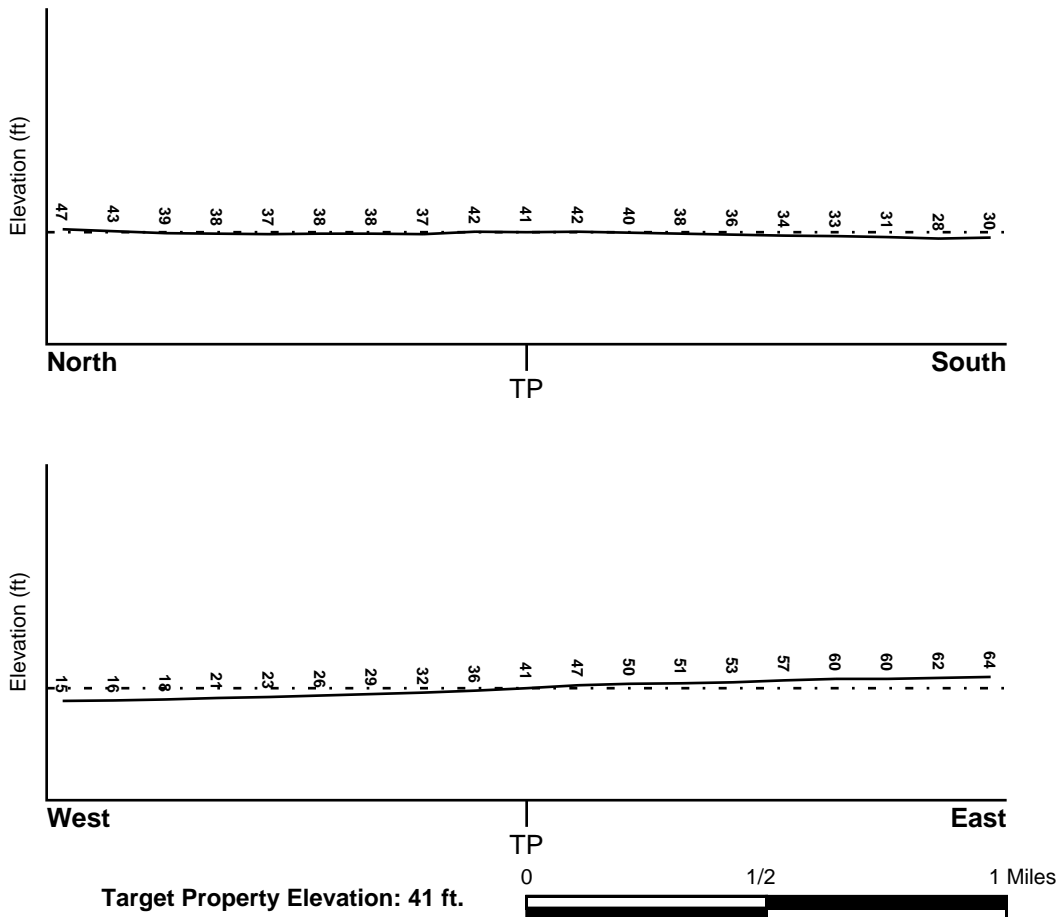
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06001C0288G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06001C0267G	FEMA FIRM Flood data
06001C0286G	FEMA FIRM Flood data
06001C0269G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
HAYWARD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/8 - 1/4 Mile WSW
Site Name:	Hayward Air National Guard Base
Site EPA ID Number:	CA3572890140
Groundwater Flow Direction:	TOWARDS SAN FRANCISCO BAY.
Measured Depth to Water:	10 feet to 15 feet.
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifers under the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
---------------	-------------------------	---

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
5	1/4 - 1/2 Mile SSW	W
6	1/4 - 1/2 Mile WSW	NW
B7	1/4 - 1/2 Mile South	SW
B8	1/4 - 1/2 Mile South	WSW
B9	1/4 - 1/2 Mile South	Varies
C10	1/4 - 1/2 Mile East	SW, NW, Vary
C11	1/4 - 1/2 Mile East	SW, NW, Vary
12	1/4 - 1/2 Mile SSW	W
13	1/2 - 1 Mile ESE	SW
D14	1/2 - 1 Mile SSW	SW
D15	1/2 - 1 Mile SSW	SW
16	1/2 - 1 Mile North	W
E17	1/2 - 1 Mile SSW	N, S
18	1/2 - 1 Mile South	SW
20	1/2 - 1 Mile SE	W
F21	1/2 - 1 Mile North	WNW
22	1/2 - 1 Mile East	WSW
F23	1/2 - 1 Mile North	NW
F24	1/2 - 1 Mile North	NW
F25	1/2 - 1 Mile North	NW
26	1/2 - 1 Mile South	SW, W, NW
30	1/2 - 1 Mile NNE	E
32	1/2 - 1 Mile WSW	W
35	1/2 - 1 Mile SW	SW
36	1/2 - 1 Mile South	SW
37	1/2 - 1 Mile SSW	Not Reported
1G	1/2 - 1 Mile NNE	E
2G	1/2 - 1 Mile North	NW
3G	1/2 - 1 Mile North	NW
4G	1/2 - 1 Mile North	NW
5G	1/2 - 1 Mile North	WNW
6G	1/2 - 1 Mile North	W
7G	1/2 - 1 Mile East	WSW
8G	1/4 - 1/2 Mile East	SW, NW, Vary
9G	1/4 - 1/2 Mile East	SW, NW, Vary
10G	1/4 - 1/2 Mile WSW	NW
11G	1/4 - 1/2 Mile SSW	W
12G	1/2 - 1 Mile ESE	SW
13G	1/4 - 1/2 Mile South	SW
14G	1/4 - 1/2 Mile South	WSW
15G	1/4 - 1/2 Mile South	Varies
16G	1/4 - 1/2 Mile SSW	W
17G	1/2 - 1 Mile SE	W
18G	1/2 - 1 Mile WSW	W
19G	1/2 - 1 Mile SSW	SW
20G	1/2 - 1 Mile SSW	SW
21G	1/2 - 1 Mile SSW	N, S
22G	1/2 - 1 Mile SW	SW
23G	1/2 - 1 Mile South	SW
24G	1/2 - 1 Mile South	SW, W, NW
25G	1/2 - 1 Mile SSW	Not Reported
26G	1/2 - 1 Mile South	SW

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

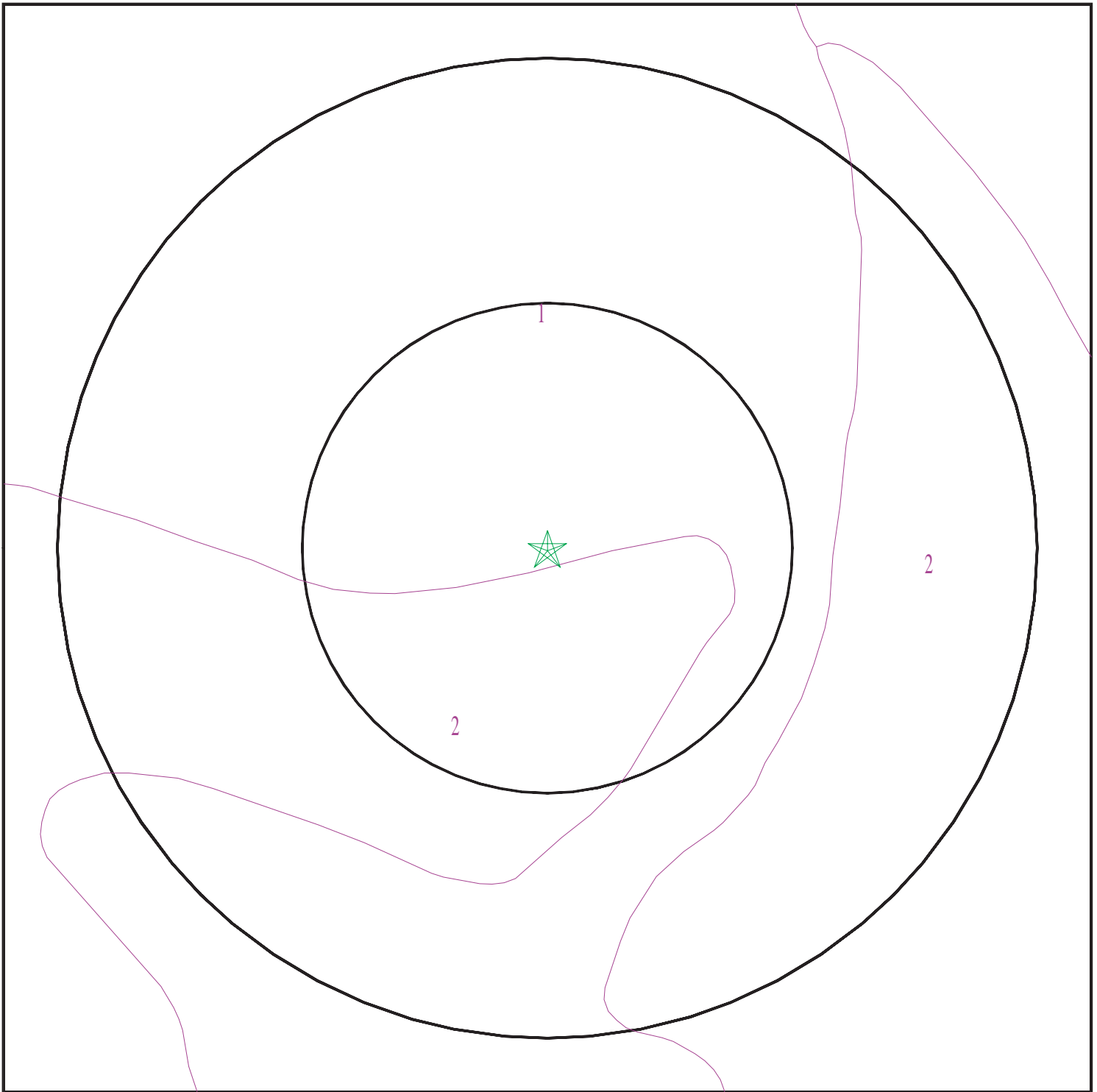
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5110454.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
Hayward CA 94545
LAT/LONG: 37.654304 / 122.117651

CLIENT: Trans Tech Consultants
CONTACT: Bill Coset
INQUIRY #: 5110454.2s
DATE: November 17, 2017 1:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Clear Lake

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	25 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	25 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Danville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
2	20 inches	53 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 6.1
3	53 inches	79 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
_____	_____	_____

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000184476	1/8 - 1/4 Mile SW
A3	USGS40000184498	1/8 - 1/4 Mile ESE
4	USGS40000184522	1/8 - 1/4 Mile WNW
27	USGS40000184399	1/2 - 1 Mile SSW
H31	USGS40000184374	1/2 - 1 Mile SSE
G34	USGS40000184404	1/2 - 1 Mile SE
38	USGS40000184668	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

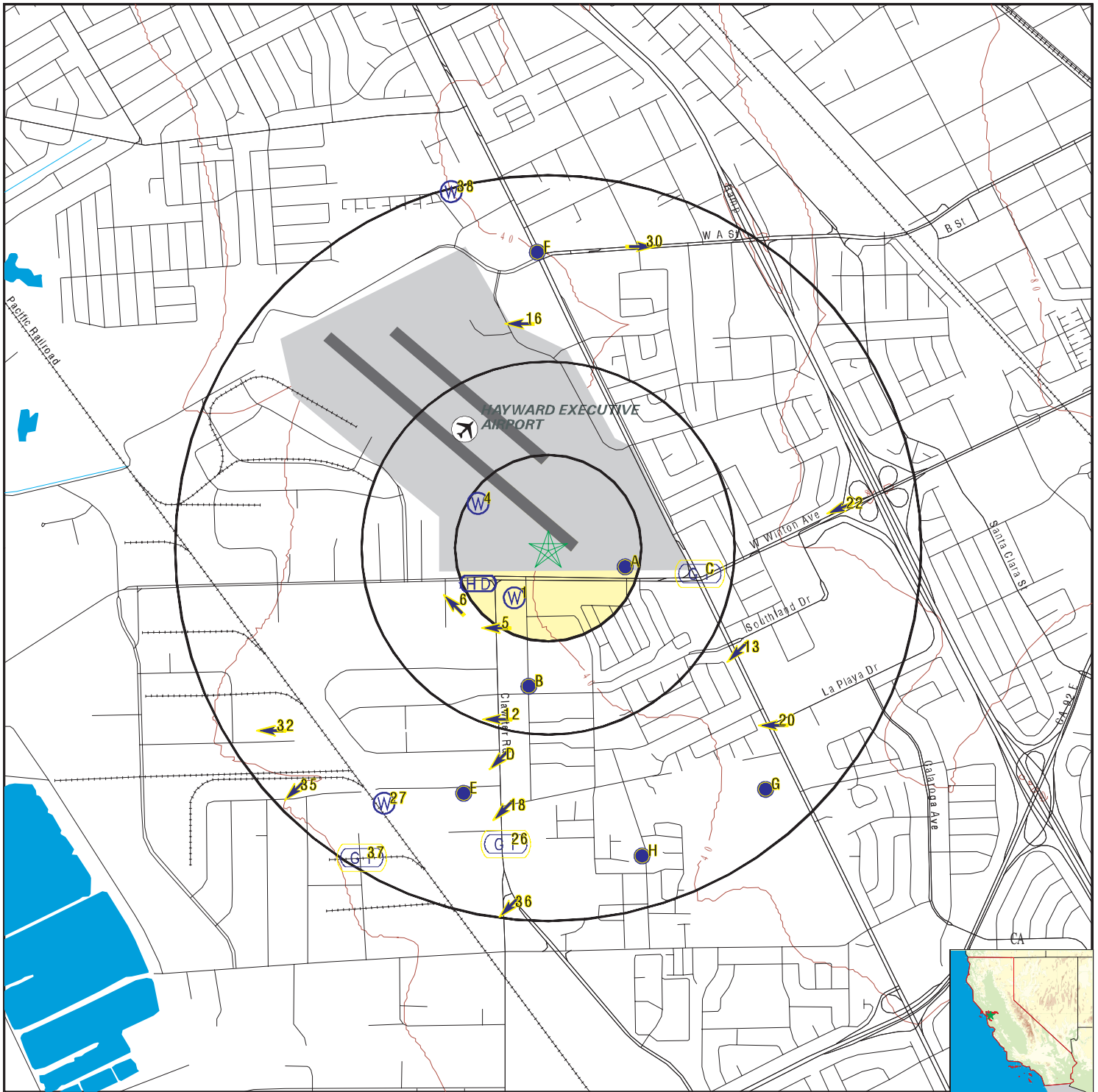
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	26	1/8 - 1/4 Mile East
E19	CADW60000017352	1/2 - 1 Mile SSW
G28	CADW60000033530	1/2 - 1 Mile SE
H29	3488	1/2 - 1 Mile SSE
H33	3	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 5110454.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Hayward Fire Station #6
 ADDRESS: 1401 West Winton Avenue
 Hayward CA 94545
 LAT/LONG: 37.654304 / 122.117651

CLIENT: Trans Tech Consultants
 CONTACT: Bill Coset
 INQUIRY #: 5110454.2s
 DATE: November 17, 2017 1:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
SW **FED USGS** **USGS40000184476**
1/8 - 1/4 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-373904122070301		
Monloc name:	003S002W19R004M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6523711
Longitude:	-122.119303	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	43.43
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1956	Welldepth:	112
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A2 **CA WELLS** **26**
East
1/8 - 1/4 Mile
Higher

Water System Information:

Prime Station Code:	0110006-006	User ID:	ENG
FRDS Number:	0110006006	County:	Alameda
District Number:	04	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	373914.0 1220646.0	Precision:	100 Feet (one Second)
Source Name:	WELL D - AIRPORT WELL-EMERGENCY STANDBY		
System Number:	0110006		
System Name:	CITY OF HAYWARD		
Organization That Operates System:	25151 CLAWITER ROAD HAYWARD, CA 94541		
Pop Served:	125000	Connections:	28615
Area Served:	HAYWARD		
Sample Collected:	04-APR-06	Findings:	1.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A3
ESE
1/8 - 1/4 Mile
Higher

FED USGS USGS40000184498

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-373912122065001		
Monloc name:	003S002W20L020M		
Monloc type:	Well		
Monloc desc:	casing collapsed and pulled summer 2003		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6533333
Longitude:	-122.1138889	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	47.1
Vert measure units:	feet	Vertacc measure val:	.2
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	600
Welldepth units:	ft	Wellholedepth:	670
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-09-25	62.25		2002-10-29	52.05	
2002-03-21	32.29		2002-03-07	36.39	

4
WNW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000184522

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-373922122071201		
Monloc name:	003S002W19J001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6560432
Longitude:	-122.1210753	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30.00
Vert measure units:	feet	Vertacc measure val:	005
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	87
Construction date:	19290920	Wellholedepth:	216
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 192

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1978-09	10.8		1978-06-06	9.8	
1978-05-09	10.2		1978-04-06	9.1	
1978-03-07	9.8		1978-02-07	11.2	
1978-01-10	12.0		1977-12-06	13.8	
1977-11-08	13.4		1977-10-11	13.3	
1977-09-12	13.1		1977-08-10	12.6	
1977-07-08	12.0		1977-06-07	11.7	
1977-05-10	11.5		1977-04-11	11.3	
1977-03-23	11.1		1977-02-07	10.9	
1977-01-10	10.7		1976-12-07	10.9	
1976-11-10	10.9		1976-10-15	10.7	
1976-09-08	10.7		1976-08-12	10.5	
1976-07-16	10.2		1976-06-09	10.3	
1976-05-12	9.9		1976-04-16	9.8	
1976-03-08	9.5		1976-02-09	9.6	
1976-01-15	9.6		1975-12	9.4	
1975-11-25	9.3		1975-10-01	9.3	
1975-09-11	9.4		1975-08-06	8.9	
1975-07-09	8.5		1975-06-11	8.3	
1975-04-16	7.6		1975-03-17	7.9	
1975-02-19	8.4		1975-01-27	9.1	
1974-12-26	8.4		1974-11-25	8.9	
1974-10-21	8.4		1974-10-02	8.7	
1974-09-04	8.4		1974-08-09	8.2	
1974-07-10	7.8		1974-06-12	7.4	
1974-05-15	7.1		1974-04-22	7.3	
1974-04-17	6.9		1974-03-20	7.3	
1974-02-20	7.4		1974-01-23	7.1	
1973-12-26	8.2		1973-11-26	8.6	
1973-11-05	9.0		1973-10-03	9.1	
1973-09-05	9.0		1973-08-08	8.6	
1973-07-11	8.1		1973-06-13	7.8	
1973-05-16	7.6		1973-04-18	7.3	
1973-04-03	7.1		1973-03-22	7.1	
1973-02-21	7.5		1973-01-24	8.5	
1972-12-27	10.1		1972-11-02	11.4	
1972-10-04	11.7		1972-09-06	11.6	
1972-08-10	11.4		1972-07-13	11.0	
1972-06-14	10.9		1972-05-18	10.6	
1972-04-19	10.4		1972-02-23	10.2	
1972-01-26	10.7		1971-12-29	11.0	
1971-12-01	10.7		1971-11-03	10.3	
1971-10-06	10.3		1971-09-08	10.2	
1971-08-11	9.6		1971-07-14	9.3	
1971-06-16	8.9		1971-05-19	8.7	
1971-04-21	9.7		1971-03-24	7.8	
1971-02-24	8.6		1971-01-27	8.1	
1970-12-30	8.1		1970-12-02	9.0	
1970-11-04	8.8		1970-10-08	9.9	
1970-09-11	9.7		1970-08-12	9.4	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-07-15	9.4		1970-05-20	8.7	
1970-04-22	8.8		1970-03-25	8.7	
1970-02-25	5.8		1970-01-28	4.6	
1969-12-30	4.9		1969-12-03	4.8	
1969-11-05	5.3		1969-10-08	5.8	
1969-09-03	8.3		1969-08-06	8.6	
1969-07-02	8.7		1969-06-04	8.0	
1969-05-09	7.8		1969-04-02	7.6	
1969-03-05	6.8		1969-02-05	8.7	
1969-01-02	12.3		1968-12-18	11.7	
1968-11-06	9.8		1968-10-02	10.3	
1968-09-05	10.2		1968-07-31	10.3	
1968-07-03	10.0		1968-06-05	9.8	
1968-05-01	9.7		1968-04-03	10.4	
1968-03-06	11.5		1968-02-07	11.5	
1968-01-04	11.8		1967-12-06	9.8	
1967-11-01	10.4		1967-10-04	10.8	
1967-09-06	10.8		1967-08-01	10.5	
1967-07-05	10.0		1967-06-07	9.6	
1967-05-04	9.0		1967-04-05	10.3	
1967-03-01	10.8		1967-02-02	10.8	
1967-01-04	13.0		1966-12-14	12.9	
1966-11-09	13.5		1966-10-19	13.8	
1966-09-22	13.6		1966-08-16	13.1	
1966-07-20	12.9		1966-06-14	12.5	
1966-05-18	12.2		1966-04-11	11.8	
1966-03-22	11.4		1966-02-14	11.2	
1966-01-17	11.8		1965-12-21	12.6	
1965-11-15	13.1		1965-10-20	13.0	
1965-09-24	12.8		1965-08-21	12.1	
1965-07-20	12.2		1965-05-17	11.2	
1965-04-17	10.6		1965-03-17	10.8	
1965-02-16	11.3		1965-01-18	11.5	
1964-12-21	13.2		1964-11-16	13.4	
1964-10-21	14.2		1964-09-25	13.9	
1964-08-18	13.6		1964-07-21	12.9	
1964-06-19	12.9		1964-05-18	12.6	
1964-04-21	12.1		1964-03-17	12.3	
1964-02-18	10.9		1964-01-21	10.6	
1963-12-17	10.9		1963-11-19	11.4	
1963-10-21	11.7		1963-09-24	10.4	
1963-08-24	10.0		1963-07-18	11.6	
1963-06-20	10.9		1963-05-20	10.8	
1963-04-24	10.1		1963-03-20	10.9	
1963-02-20	10.9		1959-04-01	9.91	
1958-10-29	10.60		1958-08-18	9.8	

**5
SSW
1/4 - 1/2 Mile
Lower**

Site ID: 01-0057
 Groundwater Flow: W
 Shallow Water Depth: 14.75
 Deep Water Depth: 16.5
 Average Water Depth: Not Reported
 Date: 05/12/1996

AQUIFLOW 55724

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
6					
WSW	Site ID:	01-0823		AQUIFLOW	55678
1/4 - 1/2 Mile	Groundwater Flow:	NW			
Lower	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	11			
	Date:	06/1997			
<hr/>					
B7					
South	Site ID:	01-0888		AQUIFLOW	51557
1/4 - 1/2 Mile	Groundwater Flow:	SW			
Lower	Shallow Water Depth:	9.84			
	Deep Water Depth:	15.47			
	Average Water Depth:	Not Reported			
	Date:	05/14/1996			
<hr/>					
B8					
South	Site ID:	01-0888		AQUIFLOW	51558
1/4 - 1/2 Mile	Groundwater Flow:	WSW			
Lower	Shallow Water Depth:	11.95			
	Deep Water Depth:	13.75			
	Average Water Depth:	Not Reported			
	Date:	12/12/1995			
<hr/>					
B9					
South	Site ID:	01-0888		AQUIFLOW	51559
1/4 - 1/2 Mile	Groundwater Flow:	Varies			
Lower	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	14 ft			
	Date:	12/20/1993			
<hr/>					
C10					
East	Site ID:	Not Reported		AQUIFLOW	55690
1/4 - 1/2 Mile	Groundwater Flow:	SW, NW, Vary			
Higher	Shallow Water Depth:	12			
	Deep Water Depth:	16			
	Average Water Depth:	Not Reported			
	Date:	05/18/1998			
<hr/>					
C11					
East	Site ID:	01-1457		AQUIFLOW	55691
1/4 - 1/2 Mile	Groundwater Flow:	SW, NW, Vary			
Higher	Shallow Water Depth:	12			
	Deep Water Depth:	16			
	Average Water Depth:	Not Reported			
	Date:	05/18/1998			
<hr/>					
12					
SSW	Site ID:	01-1143		AQUIFLOW	55564
1/4 - 1/2 Mile	Groundwater Flow:	W			
Lower	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	13			
	Date:	09/01/1989			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

13 ESE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0347 SW 14.65 16.80 Not Reported 02/27/1997	AQUIFLOW	55603
---	---	---	-----------------	--------------

D14 SSW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0248 SW Not Reported Not Reported 10 04/03/1990	AQUIFLOW	55593
---	---	---	-----------------	--------------

D15 SSW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SW Not Reported Not Reported 10 04/03/1990	AQUIFLOW	55595
---	---	--	-----------------	--------------

16 North 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2101 W 5.69 8.33 Not Reported 11/05/1998	AQUIFLOW	38193
--	---	--	-----------------	--------------

E17 SSW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2116 N, S 8.5 10.5 Not Reported 10/13/1994	AQUIFLOW	69302
---	---	--	-----------------	--------------

18 South 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1876 SW Not Reported Not Reported 13 02/1994	AQUIFLOW	55576
--	---	--	-----------------	--------------

E19 SSW 1/2 - 1 Mile Lower			CA WELLS	CADW60000017352
---	--	--	-----------------	------------------------

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 17352
 Latitude: 37.6445
 Longitude: -122.1222
 Site code: 376445N1221222W001
 State well numbe: 03S02W30G005M
 Local well name: "
 Well use id: 4
 Well use descrip: Residential
 County id: 1
 County name: Alameda
 Basin code: '2-9.04'
 Basin desc: East Bay Plain
 Dwr region id: 80236
 Dwr region: North Central Region Office
 Site id: CADW60000017352

20 SE 1/2 - 1 Mile Higher	Site ID:	01-0569		
	Groundwater Flow:	W	AQUIFLOW	55610
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	17		
	Date:	08/18/1995		

F21 North 1/2 - 1 Mile Lower	Site ID:	01-1454		
	Groundwater Flow:	WNW	AQUIFLOW	38252
	Shallow Water Depth:	7.28		
	Deep Water Depth:	13.23		
	Average Water Depth:	Not Reported		
	Date:	09/27/1996		

22 East 1/2 - 1 Mile Higher	Site ID:	01-0399		
	Groundwater Flow:	WSW	AQUIFLOW	50070
	Shallow Water Depth:	25		
	Deep Water Depth:	40		
	Average Water Depth:	Not Reported		
	Date:	01/07/1999		

F23 North 1/2 - 1 Mile Lower	Site ID:	01-0247		
	Groundwater Flow:	NW	AQUIFLOW	52967
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	13.0		
	Date:	10/06/1994		

F24 North 1/2 - 1 Mile Lower	Site ID:	01-0247		
	Groundwater Flow:	NW	AQUIFLOW	52968
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	5-20		
	Date:	05/06/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F25 North 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0247 NW 6.70 12.46 Not Reported 07/02/1996	AQUIFLOW	52969
---	---	--	-----------------	--------------

26 South 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1170 SW, W, NW 12 18 Not Reported 03/1988	AQUIFLOW	55591
--	---	---	-----------------	--------------

27 SSW 1/2 - 1 Mile Lower			FED USGS	USGS40000184399
--	--	--	-----------------	------------------------

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-373840122072901		
Monloc name:	003S002W30G005M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6443797
Longitude:	-122.1256699	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Transit, theodolite, or other surveying method		
Horiz coord refsys:	NAD83	Vert measure val:	34.63
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

G28 SE 1/2 - 1 Mile Higher			CA WELLS	CADW60000033530
---	--	--	-----------------	------------------------

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 33530
 Latitude: 37.6452
 Longitude: -122.1074
 Site code: 376452N1221074W001
 State well numbe: 03S02W29F004M
 Local well name: "
 Well use id: 3
 Well use descrip: Irrigation
 County id: 1
 County name: Alameda
 Basin code: '2-9.04'
 Basin desc: East Bay Plain
 Dwr region id: 80236
 Dwr region: North Central Region Office
 Site id: CADW60000033530

H29
SSE
 1/2 - 1 Mile
 Lower

CA WELLS 3488

Water System Information:

Prime Station Code: 03S/02W-29M01 M	User ID: ENG
FRDS Number: 0103039001	County: Alameda
District Number: 04	Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater	Well Status: Active Untreated
Source Lat/Long: 373834.1 1220642.6	Precision: 1,000 Feet (10 Seconds)
Source Name: WELL 01	
System Number: 0103039	
System Name: MOHRLAND MUTUAL WATER SYSTEM	
Organization That Operates System: 24927 MOHR DRIVE HAYWARD, CA 94545	
Pop Served: 605	Connections: 68
Area Served: Not Reported	

30
NNE
 1/2 - 1 Mile
 Higher

Site ID: 01-1480		AQUIFLOW 50076
Groundwater Flow: E		
Shallow Water Depth: 14.22		
Deep Water Depth: 15.95		
Average Water Depth: Not Reported		
Date: 04/17/1996		

H31
SSE
 1/2 - 1 Mile
 Lower

FED USGS USGS40000184374

Org. Identifier: USGS-CA	
Formal name: USGS California Water Science Center	
Monloc Identifier: USGS-373832122064801	
Monloc name: 003S002W29L006M	
Monloc type: Well	
Monloc desc: Not Reported	
Huc code: Not Reported	Drainagearea value: Not Reported
Drainagearea Units: Not Reported	Contrib drainagearea: Not Reported
Contrib drainagearea units: Not Reported	Latitude: 37.6424167
Longitude: -122.1134167	Sourcemap scale: 24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	40
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19990907	Welldepth:	600
Welldepth units:	ft	Wellholedepth:	670
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

2002-10-30	42.44	

32 WSW 1/2 - 1 Mile Lower	Site ID:	01-2128	AQUIFLOW	55710
	Groundwater Flow:	W		
	Shallow Water Depth:	10		
	Deep Water Depth:	15		
	Average Water Depth:	Not Reported		
	Date:	07/21/1994		

H33 SSE 1/2 - 1 Mile Lower		CA WELLS	3
---	--	-----------------	----------

Water System Information:

Prime Station Code:	0103039-002	User ID:	ENG
FRDS Number:	0103039002	County:	Alameda
District Number:	04	Station Type:	WELL/AMBNT/MUN/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	373831.3 1220643.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 02 - STANDBY		
System Number:	0103039		
System Name:	MOHRLAND MUTUAL WATER SYSTEM		
Organization That Operates System:	24927 MOHR DRIVE HAYWARD, CA 94545		
Pop Served:	605	Connections:	68
Area Served:	Not Reported		
Sample Collected:	10-JUL-06	Findings:	192. UG/L
Chemical:	BARIUM		

G34 SE 1/2 - 1 Mile Higher		FED USGS	USGS40000184404
---	--	-----------------	------------------------

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-373841122062001		
Monloc name:	003S002W29F004M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6446547
Longitude:	-122.1066304	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1958	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 50

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1983-05-20	12.4		1982-10-13	15.8	
1982-04-30	13.3		1981-10-21	16.9	
1981-05-22	15.7		1980-11-18	16.3	
1980-04-15	14.5		1979-10-09	17.3	
1979-04-26	16.1		1978-09-12	16.9	
1978-03-30	17.4		1977-10-04	19.5	
1977-03-23	18.1		1976-09-22	17.5	
1976-03-02	16.4		1975-10-02	15.6	
1975-03-12	15.1		1974-09-03	13.9	
1974-04-09	12.9		1973-09-14	15.4	
1973-03-20	13.7		1972-10-12	19.4	
1972-05-21	18.2		1971-09-22	17.0	
1971-04-26	16.0		1970-10-19	18.0	
1970-04-24	14.8		1969-10-10	17.1	
1968-10-28	18.5		1968-04-16	15.5	
1968-04-12	14.6		1967-11-02	18.2	
1967-03-14	17.2		1966-10-07	19.8	
1966-04-12	19.2		1965-11-02	20.0	
1965-03-15	18.8		1964-10-14	20.9	
1964-03-30	19.5		1963-09-06	18.4	
1963-04-04	18.0		1962-09-06	21.0	
1962-04-04	19.1		1961-11-03	23.2	
1961-04-07	20.2		1960-10-28	21.0	
1960-03-21	18.3		1959-11-12	19.1	
1959-04-01	16.6		1958-10-28	16.0	

**35
SW
1/2 - 1 Mile
Lower**

Site ID: 01-1884
 Groundwater Flow: SW
 Shallow Water Depth: Not Reported
 Deep Water Depth: Not Reported
 Average Water Depth: 8
 Date: 01/13/1999

AQUIFLOW 64116

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

36 South 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01NBC0008 SW Not Reported Not Reported 10 12/19/1997	AQUIFLOW	55587
--	---	---	-----------------	--------------

37 SSW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1134 Not Reported Not Reported Not Reported 8 03/21/1988	AQUIFLOW	55552
--	---	--	-----------------	--------------

38 NNW 1/2 - 1 Mile Lower			FED USGS	USGS40000184668
--	--	--	-----------------	------------------------

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-374008122072001		
Monloc name:	003S002W18K003M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6681667
Longitude:	-122.1223889	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	37
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19780320	Welldepth:	155
Welldepth units:	ft	Wellholedepth:	155
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

1G NNE 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1480 E 14.22 15.95 Not Reported 04/17/1996	AQUIFLOW	50076
--	---	--	-----------------	--------------

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
2G North 1/2 - 1 Mile Lower	Site ID:	01-0247	AQUIFLOW	52967
	Groundwater Flow:	NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	13.0		
Date:	10/06/1994			
3G North 1/2 - 1 Mile Lower	Site ID:	01-0247	AQUIFLOW	52968
	Groundwater Flow:	NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	5-20		
Date:	05/06/1996			
4G North 1/2 - 1 Mile Lower	Site ID:	01-0247	AQUIFLOW	52969
	Groundwater Flow:	NW		
	Shallow Water Depth:	6.70		
	Deep Water Depth:	12.46		
	Average Water Depth:	Not Reported		
Date:	07/02/1996			
5G North 1/2 - 1 Mile Lower	Site ID:	01-1454	AQUIFLOW	38252
	Groundwater Flow:	WNW		
	Shallow Water Depth:	7.28		
	Deep Water Depth:	13.23		
	Average Water Depth:	Not Reported		
Date:	09/27/1996			
6G North 1/2 - 1 Mile Lower	Site ID:	01-2101	AQUIFLOW	38193
	Groundwater Flow:	W		
	Shallow Water Depth:	5.69		
	Deep Water Depth:	8.33		
	Average Water Depth:	Not Reported		
Date:	11/05/1998			
7G East 1/2 - 1 Mile Lower	Site ID:	01-0399	AQUIFLOW	50070
	Groundwater Flow:	WSW		
	Shallow Water Depth:	25		
	Deep Water Depth:	40		
	Average Water Depth:	Not Reported		
Date:	01/07/1999			
8G East 1/4 - 1/2 Mile Lower	Site ID:	Not Reported	AQUIFLOW	55690
	Groundwater Flow:	SW, NW, Vary		
	Shallow Water Depth:	12		
	Deep Water Depth:	16		
	Average Water Depth:	Not Reported		
Date:	05/18/1998			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
9G East 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1457 SW, NW, Vary 12 16 Not Reported 05/18/1998	AQUIFLOW	55691
10G WSW 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0823 NW Not Reported Not Reported 11 06/1997	AQUIFLOW	55678
11G SSW 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0057 W 14.75 16.5 Not Reported 05/12/1996	AQUIFLOW	55724
12G ESE 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0347 SW 14.65 16.80 Not Reported 02/27/1997	AQUIFLOW	55603
13G South 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0888 SW 9.84 15.47 Not Reported 05/14/1996	AQUIFLOW	51557
14G South 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0888 WSW 11.95 13.75 Not Reported 12/12/1995	AQUIFLOW	51558
15G South 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0888 Varies Not Reported Not Reported 14 ft 12/20/1993	AQUIFLOW	51559

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
16G SSW 1/4 - 1/2 Mile Lower	Site ID:	01-1143		AQUIFLOW	55564
	Groundwater Flow:	W			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	13			
	Date:	09/01/1989			
17G SE 1/2 - 1 Mile Lower	Site ID:	01-0569		AQUIFLOW	55610
	Groundwater Flow:	W			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	17			
	Date:	08/18/1995			
18G WSW 1/2 - 1 Mile Lower	Site ID:	01-2128		AQUIFLOW	55710
	Groundwater Flow:	W			
	Shallow Water Depth:	10			
	Deep Water Depth:	15			
	Average Water Depth:	Not Reported			
	Date:	07/21/1994			
19G SSW 1/2 - 1 Mile Lower	Site ID:	01-0248		AQUIFLOW	55593
	Groundwater Flow:	SW			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	10			
	Date:	04/03/1990			
20G SSW 1/2 - 1 Mile Lower	Site ID:	Not Reported		AQUIFLOW	55595
	Groundwater Flow:	SW			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	10			
	Date:	04/03/1990			
21G SSW 1/2 - 1 Mile Lower	Site ID:	01-2116		AQUIFLOW	69302
	Groundwater Flow:	N, S			
	Shallow Water Depth:	8.5			
	Deep Water Depth:	10.5			
	Average Water Depth:	Not Reported			
	Date:	10/13/1994			
22G SW 1/2 - 1 Mile Lower	Site ID:	01-1884		AQUIFLOW	64116
	Groundwater Flow:	SW			
	Shallow Water Depth:	Not Reported			
	Deep Water Depth:	Not Reported			
	Average Water Depth:	8			
	Date:	01/13/1999			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
23G South 1/2 - 1 Mile Lower	Site ID:	01-1876	AQUIFLOW	55576
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	13		
Date:	02/1994			
24G South 1/2 - 1 Mile Lower	Site ID:	01-1170	AQUIFLOW	55591
	Groundwater Flow:	SW, W, NW		
	Shallow Water Depth:	12		
	Deep Water Depth:	18		
	Average Water Depth:	Not Reported		
Date:	03/1988			
25G SSW 1/2 - 1 Mile Lower	Site ID:	01-1134	AQUIFLOW	55552
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8		
Date:	03/21/1988			
26G South 1/2 - 1 Mile Lower	Site ID:	01NBC0008	AQUIFLOW	55587
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	10		
Date:	12/19/1997			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94545	448	12

Federal EPA Radon Zone for ALAMEDA County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94545

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Hayward Fire Station #6

1401 West Winton Avenue
Hayward, CA 94545

Inquiry Number: 5110454.5
November 17, 2017

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

Data by

infoUSA[®]

Copyright©2008
All Rights Reserved

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2006	Haines Company, Inc.	-	-	-	-
2002	Haines	X	X	X	-
	R. L. Polk & Co.	X	X	X	-
2000	Pacific Bell	-	-	-	-
1996	PACIFIC BELL DIRECTORY	-	-	-	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
1986	Pacific Bell	-	X	X	-
	PACIFIC BELL WHITE PAGES	-	X	X	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1984	Pacific Bell	-	X	X	-
1982	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
1979	Pacific Telephone	-	X	X	-
1976	R. L. Polk & Co.	X	X	X	-
1975	Pacific Telephone	-	X	X	-
1973	Pacific Telephone	-	X	X	-
1970	Pacific Telephone Directory	-	X	X	-
	R. L. Polk & Co.	-	X	X	-
1967	R. L. Polk Co.	-	-	-	-
1965	R. L. Polk & Co.	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	-	X	X	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	-	-	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	-	-	-
1933	R. L. Polk & Co. of California	-	-	-	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R. L. Polk & Co. of California	-	-	-	-
1926	R. L. Polk & Co.	-	-	-	-
1925	The Pacific Telephone & Telegraph Co.	-	-	-	-
1920	R. L. Polk & Co. of California	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1401 West Winton Avenue
Hayward, CA 94545

FINDINGS DETAIL

Target Property research detail.

W WINTON AVE

1401 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.
1976	BENJNSIAN	R. L. Polk & Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CLAWITER RD

22743 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	Manter M Christine Mrs	R. L. Polk & Co.
1965	MANTER M CHRISTINE MRS	R. L. Polk & Co.
	MANTER C J	R. L. Polk & Co.
1960	MANTER C J	Pacific Telephone

22759 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	Knickerbocker Chester G	R. L. Polk & Co.
1965	KNICKERBOCKER CHESTER G	R. L. Polk & Co.
	KNICKERBOCKER CHESTER G	R. L. Polk & Co.
1960	KNICKERBOCKER CHESTER G	Pacific Telephone

22891 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	NIELSEN N P	R. L. Polk & Co.
	NIELSEN HELG	R. L. Polk & Co.
1960	NIELSEN N P	Pacific Telephone

22950 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	KRUGER FOODS	R. L. Polk & Co.
	KRUGER Denna	R. L. Polk & Co.
	KRUGER FOODS	Haines
	KRUGER Denna	Haines
1982	CRESCENT FOOD CO HAYWARD	Pacific Telephone
1980	Sylvester Dairy Products	Pacific Telephone
1979	CRESENT FOODS CO	Pacific Telephone
1976	OR	R. L. Polk & Co.
	NULAIID FOODS INC	R. L. Polk & Co.
	Nulaid Foods Inc	R. L. Polk & Co.
1975	NULAIID FOODS INC	Pacific Telephone
1973	NULAIID FOODS INC	Pacific Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	NULAIID FOODS INC	Pacific Telephone

22962 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	BUILDING ARC PRIVATE	R. L. Polk & Co.
	COMPANY BATESAUTOSE	R. L. Polk & Co.
	BUCKS	R. L. Polk & Co.
	FLOORINGEFLOOR	R. L. Polk & Co.
	COVERING CARDENAS	R. L. Polk & Co.
	DISTRIBUTING DOMNOS PIZZ	R. L. Polk & Co.
	GOLDEN GATEX RAY	R. L. Polk & Co.
	LUISSOTO	R. L. Polk & Co.
	INSTALLATION MONTGOMERY	R. L. Polk & Co.
	SWEEPING SERVICE	R. L. Polk & Co.
	CLAWITERRD 94545 CONT ONEILLS	R. L. Polk & Co.
	ACC 08 NTING&TAX	R. L. Polk & Co.
	SERV PACIFICWELDINGAND	R. L. Polk & Co.
	MACHINE PCDOCTORTHE	R. L. Polk & Co.
	TALAI ELECTRIC	R. L. Polk & Co.
	TEA GARDEN	R. L. Polk & Co.
	DISTRIBUTORS	R. L. Polk & Co.
	TLC DISTRIBUTION	R. L. Polk & Co.
	VITAMIN FACTORY	R. L. Polk & Co.
	VITAMIN FACTORY	R. L. Polk & Co.
	BUILDING	Haines
	ARC PRIVATE	Haines
	COMPANY BATESAUTOSE	Haines
	BUCKS	Haines
	FLOORINGEFLOOR	Haines
	COVERING	Haines
	CARDENAS	Haines
	DISTRIBUTING	Haines
	DOMNOS PIZZA	Haines
	GOLDEN GATEX RAY	Haines
	LUISSOTO	Haines
	INSTALLATION	Haines
	MONTGOMERY	Haines
	SWEEPING SERVICE	Haines
	CLAWITERRD 94545 CONT	Haines

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	ONEILLS	Haines
	ACC 08 NTING&TAX	Haines
	PACIFICWELDINGAND	Haines
	MACHINE	Haines
	PCDOCTORTHE	Haines
	TALAI ELECTRIC	Haines
	TEA GARDEN	Haines
	DISTRIBUTORS	Haines
	TLC DISTRIBUTION	Haines
	VITAMIN FACTORY	Haines
	VITAMIN FACTORY	Haines
1992	EMPIRE PUBLISHING INC	PACIFIC BELL DIRECTORY
	INSTALLATION PLUS	PACIFIC BELL DIRECTORY
	PACIFIC WELDING AND MACHINE	PACIFIC BELL DIRECTORY
	VITAMIN FACTORY	PACIFIC BELL DIRECTORY
	KENTAB LABORATORIES	PACIFIC BELL DIRECTORY
	SWISS CATERING	PACIFIC BELL DIRECTORY
	CALIFORNIA PATIO INC	PACIFIC BELL DIRECTORY
	CALIFORNIA PATIO BUILDERS INC DESIGN &	PACIFIC BELL DIRECTORY
	DOMINOS PIZZA	PACIFIC BELL DIRECTORY
	ALFA FIAT EXCLUSIVE	PACIFIC BELL DIRECTORY
	AERO COLOURS	PACIFIC BELL DIRECTORY
	GERMAN CLASSICS AUTO SERVICE	PACIFIC BELL DIRECTORY
	GOLDEN GATE X RAY	PACIFIC BELL DIRECTORY
	TOSTADITAS TORTILLA CHIPS	PACIFIC BELL DIRECTORY
	ABOVE ZERO PRODUCTIONS	PACIFIC BELL DIRECTORY
1986	CALIFORNIA PATIO	Pacific Bell
1984	CALIFORNIA PATIO	Pacific Bell
1982	A BETTER SERVICE INC HAYWARD	Pacific Telephone
	ALFA FIAT EXCLUSIVE HAYWARD	Pacific Telephone
	B & D AUTO REPAIR HAYWARD	Pacific Telephone
	CAPITOL PATIO BUILDERS HAYWARD	Pacific Telephone
	CLAWITER SUPER PRINT HAYWARD	Pacific Telephone
	ELECTRIC MOTOR & CONTROL HAYWARD	Pacific Telephone
	FRANKLIN MIKE HAYWARD	Pacific Telephone
	GERARD ROOFING SYSTEMS HAYWARD	Pacific Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	GERMAN CLASSICS HAYWARD	Pacific Telephone
	GOLDEN GATE X-RAY HAYWARD	Pacific Telephone
	GOLDEN STATE JANITORIAL SERVICE HAYWARD	Pacific Telephone
	GRIMES & MARTINEZ GENERAL AUTOMOTIVE HAYWARD	Pacific Telephone
	HAYWARD AUTO STEREO HAYWARD	Pacific Telephone
	KENNEDY TOM PHOTO LAB HAYWARD	Pacific Telephone
	LITO S AUTO UPHOLSTERY HAYWARD	Pacific Telephone
	MERRIES CATERING SERVICE HAYWARD	Pacific Telephone
	MR SUNROOF HAYWARD	Pacific Telephone
	PHIPPEN D G & SON HAYWARD	Pacific Telephone
	PHOTOGRAPHIC ADVERTISING HAYWARD	Pacific Telephone
	QUALITY CYLINDER HEADS HAYWARD	Pacific Telephone
	QUALITY TILE INSTALLATION HAYWARD	Pacific Telephone
	SERVICE WEST HAYWARD	Pacific Telephone
1980	Propulsion Engineering Co Shop	Pacific Telephone
	AAA All American Aluminum Window & Glass Co	Pacific Telephone
1979	CAPITOL PATIO BUILDERS HAYWARD 7863	Pacific Telephone
	A BETTER SERVICE INC	Pacific Telephone
	AAA ALL AMERICAN ALUMINUM & GLASS CO	Pacific Telephone
	AMERICAN VEHICLE SYSTEMS	Pacific Telephone
	BAY CITIES GLASS	Pacific Telephone
	BECKHAM & LA ROCK CONSTRUCTION	Pacific Telephone
	CENTURY CONSTRUCTION	Pacific Telephone
	CLAWITER SUPER PRINT	Pacific Telephone
	GERMAN CLASSICS	Pacific Telephone
	HAYWARD AUTO STEREO	Pacific Telephone
	KENNEDY TOM PHOTO LAB	Pacific Telephone
	LEE S APPAREL	Pacific Telephone
	MR SUNROOF	Pacific Telephone
	OFFICE SPECTRUM THE	Pacific Telephone

FINDINGS

22990 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CASTROVALLEYTAXI	Haines
	ALAMDACO	Haines
	YELLOWSHUTTLE OF	Haines
	YELLOWSHUTTLE	Haines
	YELLOWCAB	Haines
	TAXITAXI	Haines
	CASTROVALLEYTAXI	R. L. Polk & Co.
	PARATRANSIT	R. L. Polk & Co.
	ST MINI CAB	R. L. Polk & Co.
	TAXITAXI	R. L. Polk & Co.
	YELLOWCAB	R. L. Polk & Co.
	YELLOWSHUTTLE	R. L. Polk & Co.
	YELLOWSHUTTLE OF	R. L. Polk & Co.
	ALAMDACO	R. L. Polk & Co.
	PARATRANSIT	Haines
1982	ALHAMBRA WATER CO INC HAYWARD	Pacific Telephone
1980	ALHAMBRA WATER CO INC	Pacific Telephone
1979	ALHAMBRA WATER CO INC	Pacific Telephone
	CASTRO DAIRY	Pacific Telephone
	COX RICHARD A	Pacific Telephone
	LAWRENCE CLAUDE W	Pacific Telephone
	ALHAMBRA WATER CO INC	Pacific Telephone
1976	ALHAMBRA NATIONAL WATER CO INC	R. L. Polk & Co.
	FOREMOST FOODS COMPANY FOREMOSTMC KESSON INC	R. L. Polk & Co.
	Alhambra National Water Co	R. L. Polk & Co.
	Foremost Foods Inc gro	R. L. Polk & Co.
1975	FOREEOST FOODS COMPANY FOREMOSTMC KESSON INC	Pacific Telephone
	ALHAMBRA NATIONAL WATER CO INC	Pacific Telephone
1973	ALHAMBRA NATIONAL WATER CO INC	Pacific Telephone
	FOREMOST FOODS COMPANY FOREMOSTMC KESSON INC	Pacific Telephone
1970	Alhambra National Water Co	R. L. Polk & Co.
1965	FOREMOST DAIRIES INC	R. L. Polk & Co.
	FOREMOST DAIRIES INC	R. L. Polk & Co.
1960	FOREMOST DAIRIES INC	Pacific Telephone
	GOLDEN STATE CO	Pacific Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Golden State Co	Pacific Telephone
	Foremost Dairies Inc	Pacific Telephone
	FOREMOST DAIRIES INC	Pacific Telephone

23024 CLAWITER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	BOARDMAN FLOYD TOM	R. L. Polk & Co.

NORTH LN

1450 NORTH LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	05 U 100 GARafael	Haines
	05 U 100 GARafael	R. L. Polk & Co.
1976	Alvarez Julio	R. L. Polk & Co.
1970	Alvarez Julio	R. L. Polk & Co.
1960	ALVAREZ JULIO	Pacific Telephone

1470 NORTH LN

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	MCCAFFERY Kei Th	R. L. Polk & Co.
	MCCAFFERY Kei Th	Haines
1992	McCaffery Keith	PACIFIC BELL DIRECTORY
1976	Samorano Arth	R. L. Polk & Co.
	JACKSON ERNEST	R. L. Polk & Co.
1970	Warden Gilbert E	R. L. Polk & Co.
1965	WARDEN GILBERT E	R. L. Polk & Co.

Saklan Rd

22800 Saklan Rd

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ROYBALL CURTIS K	EDR Digital Archive
2010	SAFETY SYSTEM INC	EDR Digital Archive
	ROYBALL CURTIS K	EDR Digital Archive

FINDINGS

SAKLAN RD

22800 SAKLAN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	NORTHWSTPRESSCO	Haines
	NORTHWSTPRESSCO 510 78 0 M	R. L. Polk & Co.
1992	CLASSIC AUTO	PACIFIC BELL DIRECTORY
	Christiansen	PACIFIC BELL DIRECTORY
1982	CHRISTIANSEN PLUMBING HAYWARD	Pacific Telephone
1979	CHRISTIANSEN PLUMBING	Pacific Telephone
1976	CHRISTIANSEN PLUMBING	R. L. Polk & Co.
	Christiansen Plumbing contrs	R. L. Polk & Co.
1973	CHRISTIANSEN PLUMBING	Pacific Telephone
1970	Christiansen Plumbing contrs	R. L. Polk & Co.

22958 SAKLAN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	KRUGERDennrs	R. L. Polk & Co.
	KRUGERDennrs	Haines
1992	KRUGER & SONS	PACIFIC BELL DIRECTORY
1982	KRUGER & SONS PICKLES & SAUERKRAUT HAYWARD	Pacific Telephone
1979	KRUGER & SONS PICKLES & SAUERKRAUT	Pacific Telephone
1976	KRUGER & SONS PICKLES & SASUERKRAUT	R. L. Polk & Co.
	NORTH LA INTERSECTS	R. L. Polk & Co.
	Kruger & Sons Inc pickle processing	R. L. Polk & Co.
1973	KRUGER & SONS PICKLES & SAUERKRAUT	Pacific Telephone
1970	Kruger & Sons Inc pickle processing	R. L. Polk & Co.
	NORTH LA INTERSECTS	R. L. Polk & Co.
1965	PROCESSING	R. L. Polk & Co.
	KRUGER & SONS PICKLE	R. L. Polk & Co.
	KRUGER & SONS PCKLS & SAUERKRAUT	R. L. Polk & Co.
1962	Kruger & Sons pckls & sauerkraut	Pacific Telephone
1960	KRUGER & SONS PCKLS & SAUTLRKRAUT	Pacific Telephone

FINDINGS

23008 SAKLAN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	Gibson Dale	R. L. Polk & Co.
1970	Gavis Geo	R. L. Polk & Co.
1965	KRUGER DENNIS W	R. L. Polk & Co.
	KRUGER DENNIS W	R. L. Polk & Co.
1960	JORDAN HARRY G	Pacific Telephone

23016 SAKLAN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	GRAYDwight	R. L. Polk & Co.
	GRAYDOighl	Haines
1979	NARUP GEORGE H	Pacific Telephone
1976	Hodges Alex W	R. L. Polk & Co.
	HODGES A W	R. L. Polk & Co.
1973	HODGES A W	Pacific Telephone
1970	Hodges Alex W	R. L. Polk & Co.
1965	HODGES A W	R. L. Polk & Co.
	HODGES A W	R. L. Polk & Co.
1960	HODGES A W	Pacific Telephone

W Winton Ave

1264 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	UNI PRINTING SERVICES CO	EDR Digital Archive
	KS DRESS DESIGNS	EDR Digital Archive
2010	UNI PRINTING SERVICES CO	EDR Digital Archive

1270 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	INNOVATIVE LAUNDRY SYSTEMS LLC	EDR Digital Archive
2010	INNOVATIVE LAUNDRY SYSTEMS LLC	EDR Digital Archive

1274 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	JIUDICE PAUL	EDR Digital Archive
2010	JIUDICE PAUL	EDR Digital Archive

FINDINGS

1275 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	RAJA SWEETS INDIAN CUISINE	EDR Digital Archive
2010	RAJA INDIAN CUISINE & BAR	EDR Digital Archive

W WINTON AVE

1275 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	LOFT SEE MANZELLA S LOFT HAYWARD	Pacific Telephone
	MANZELLA S LOFT HAYWARD	Pacific Telephone
1976	LOFT SEE MANZELLA S LOFT	R. L. Polk & Co.

W Winton Ave

1294 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	INSTA-LUBE	EDR Digital Archive
2010	INSTA-LUBE	EDR Digital Archive

W WINTON AVE

1316 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CAST REHAB	R. L. Polk & Co.
	CAST REHAB	Haines

W Winton Ave

1318 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	LEE INSOO	EDR Digital Archive
2010	LEE INSOO	EDR Digital Archive

1320 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	FIVE STAR PAINTING	EDR Digital Archive
2010	LUCIANOS AAA	EDR Digital Archive

FINDINGS

1321 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	PACIFIC ROLLER DIE CO INC	EDR Digital Archive
2010	PACIFIC ROLLER DIE CO INC	EDR Digital Archive

W WINTON AVE

1321 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	LININGSICOATINGS	R. L. Polk & Co.
	PACIFIC	Haines
	LININGSICOATINGS	Haines
	PACIFIC	R. L. Polk & Co.
1991	Pacific Roller Die Co Inc	PACIFIC BELL WHITE PAGES
1986	Pacific Roller Die Co Inc	PACIFIC BELL WHITE PAGES
	Tennis Supply Co	PACIFIC BELL WHITE PAGES
1982	P R D OCEANICS CORP HAYWARD	Pacific Telephone
	PACIFIC ROLLER DIE CO INC HAYWARD	Pacific Telephone
	TENNIS SUPPLY CO HAYWARD	Pacific Telephone
1980	Tennis Supply Co	Pacific Telephone
	P R D Oceanics Corp	Pacific Telephone
	Pacific Roller Die Co Inc	Pacific Telephone
1979	P RD OCEANICS CORP	Pacific Telephone
	PACIFIC ROLLER DIE CO INC	Pacific Telephone
1976	P R D OCEANICS CORP	R. L. Polk & Co.
	PACIFIC ROLLER DIE CO INC	R. L. Polk & Co.
	Pacific Roller Die Co die casting	R. L. Polk & Co.
1973	P R D OCEANICS CORP	Pacific Telephone
	PACIFIC ROLLER DIE CO INC	Pacific Telephone
1970	Pacific Roller Die Co die casting	R. L. Polk & Co.
	FOUNDATION SUPPLY CO HAYWARD	Pacific Telephone Directory
	PACIFIC ROLLER DIE CO INC HAYWARD	Pacific Telephone Directory
1965	FOUNDATION SUPPLY CO	R. L. Polk & Co.
	PAC ROLLER DIE CO	R. L. Polk & Co.

FINDINGS

W Winton Ave

1324 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SOLEO HEALTH	EDR Digital Archive

W WINTON AVE

1324 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	DECORATIVE PLANT RENTALS INC HAYWARD	Pacific Telephone
	DECORATIVE PLANT SERVICE CO HAYWARD	Pacific Telephone
	DECORATIVE PLANT SERVICE CO HAYWARD	Pacific Telephone
1980	Decorative Plant Service Co	Pacific Telephone
	Plant Rentals	Pacific Telephone
1979	DECORATIVE PLANT RENTALS INC	Pacific Telephone
	DECORATIVE PLANT SERVICE CO	Pacific Telephone
	DECORATIVE PLANT SERVICE CO	Pacific Telephone
1976	Decorative Plant Rentals Inc	R. L. Polk & Co.
	DECORATIVE PLANT RENTALS INC	R. L. Polk & Co.
	PLANT RENTALS	R. L. Polk & Co.
1973	DECORATIVE PLANT RENTALS INC	Pacific Telephone
	PLANT RENTALS	Pacific Telephone
1970	Decorative Plant Rentals Inc ret florists	R. L. Polk & Co.
	DECORATIVE PLANT RENTALS INC HAYWARD	Pacific Telephone Directory
	PLANT RENTALS HAYWARD	Pacific Telephone Directory
	PLANT RENTALS DECORATIVE INC HAYWARD	Pacific Telephone Directory
1965	DECORATIVE PLANT RENTALS INC	R. L. Polk & Co.
	PLANT RENTALS	R. L. Polk & Co.
1962	DECORATIVE PLANT RENTALS INC	Pacific Telephone
	Plant Rentals	Pacific Telephone
	PLANT RENTALS DECORATIVE INC	Pacific Telephone
1960	DECORATIVE PLANT RENTALS INC	Pacific Telephone
	NEWBAUER HELEN DECORATIVE PLANT RENTLS INC	Pacific Telephone
	PLANT RENTALS	Pacific Telephone

FINDINGS

W Winton Ave

1326 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	CRITICAL CARE SYSTEMS INC	EDR Digital Archive

W WINTON AVE

1326 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CTJCORP	Haines
	CTJCORP	R. L. Polk & Co.

1332 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	SYNAPSECOMPUTER	Haines
	SOLUTIONS INC	R. L. Polk & Co.
	SYNAPSECOMPUTER	R. L. Polk & Co.
	SOLUTIONS INC	Haines

1335 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	X 5 X	Haines
	5 X	R. L. Polk & Co.

W Winton Ave

1336 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	RN SECURITY CO	EDR Digital Archive
2010	SENTRY SENSOR	EDR Digital Archive

1338 W Winton Ave

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ALLIED POLY INTERNATIONAL INC	EDR Digital Archive

W WINTON AVE

1376 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CHRISTIANISENE	R. L. Polk & Co.
	CHRISTIANISENE	Haines

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	AREA INDUSTRIAL SUPPLY TOOLS HAYWARD	Pacific Telephone
1979	AREA INDUSTRIAL SUPPLY TOOLS	Pacific Telephone
1976	Jorgensen Kate Mrs	R. L. Polk & Co.
1970	Jorgensen Kate Mrs	R. L. Polk & Co.
1965	JORGENSEN M KATE	R. L. Polk & Co.
1960	JORGENSEN MARGUERITE C	Pacific Telephone

1410 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	AAA ALL AMERICAN ALUMINUM WINDOW & GLASS CO HAYWARD	Pacific Telephone
	AAA ALL AMERICAN ALUMINUM & GLASS CO HAYWARD	Pacific Telephone
1979	COOKBOOK PUBLISHERS	Pacific Telephone
1976	AREA INDUSTRIAL SUPPLY TOOLS	R. L. Polk & Co.
	Area Industrial Supply whol industrial	R. L. Polk & Co.
1973	AREA INDUSTRIAL SUPPLY TOOLS	Pacific Telephone
1970	Area Industrial Supply whol industrial	R. L. Polk & Co.
	AREA INDUSTRIAL SUPPLY TOOLS HAYWARD	Pacific Telephone Directory
1965	ATOM RENTALS	R. L. Polk & Co.
	AREA INDUSTRIAL SUPPLY TOOLS	R. L. Polk & Co.

1412 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	EDS CRANKSHAFTS	R. L. Polk & Co.
	EDS CRANKSHAFTS	Haines

1414 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	SASH&G LASS	Haines
	ALADOINS	R. L. Polk & Co.
	SASH&G LASS	R. L. Polk & Co.
	ALADOINS	Haines
1991	Clayton Industries	PACIFIC BELL WHITE PAGES
	Clayton Jas	PACIFIC BELL WHITE PAGES
1986	Clayton Industries	PACIFIC BELL WHITE PAGES
1982	CLAYTON MFG CO HAYWARD	Pacific Telephone
1980	CLAYTON MFG CO	Pacific Telephone
1979	CLAYTON MFG CO	Pacific Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	Clayton Manufacturing Co	R. L. Polk & Co.
1973	CLAYTON MFG CO	Pacific Telephone
1970	Vacant	R. L. Polk & Co.
1965	JONDA INDUSTRIES	R. L. Polk & Co.

1415 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	05 MARAL Marvin	R. L. Polk & Co.
	05 MARAL Marvin	Haines

1416 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	LAWRENCE PRECISION MACHINE HAYWARD	Pacific Telephone
1979	LAWRENCE PRECISION MACHINE	Pacific Telephone
	AEROCUSTOMS	Pacific Telephone
1976	LAWRENCE PRECISION MACHINE E	R. L. Polk & Co.
	Bamsch Tool & Die	R. L. Polk & Co.
1973	LAWRENCE PRECISION MACHINE	Pacific Telephone
1970	LAWRENCE PRECISION MACHINE HAYWARD	Pacific Telephone Directory
	Lawrence Precision Machine mach shop	R. L. Polk & Co.

1418 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	STONETEAM	R. L. Polk & Co.
	INTERNATIONAL	R. L. Polk & Co.
	STONETEAM	Haines
	INTERNATIONAL	Haines
1982	BAMSCH TOOL & DIE INC HAYWARD	Pacific Telephone
1979	BAMSCH TOOL & DIE INC	Pacific Telephone
1976	Bamsch Tool & Die Inc	R. L. Polk & Co.
	BARRNSCH TOOL & DIE INC	R. L. Polk & Co.
1973	BAMSCH TOOL & DIE INC	Pacific Telephone
1970	Bamsch Tool & Die Service	R. L. Polk & Co.
1965	NELSON MODEL PRODUCTS INC	R. L. Polk & Co.

1420 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	KMOL ENGINEERING	R. L. Polk & Co.
	KMOL ENGINEERING	Haines

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	K-MOL ENGINEERING INC HAYWARD	Pacific Telephone
1979	K MOL ENGINEERING CO	Pacific Telephone
1976	K MOL ENGINEERING CO K Mol Engineering Co die mkrs	R. L. Polk & Co. R. L. Polk & Co.
1973	K MOL ENG INEERING CO	Pacific Telephone
1970	K Mol Engineering Co die mkrs	R. L. Polk & Co.
1965	GULLCRAFT EXPERIMENTAL MFG	R. L. Polk & Co.

1422 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	XXXX XXXX	Haines R. L. Polk & Co.
1976	Vacant AMES TAPING TOOL SYSTEMS INC	R. L. Polk & Co. R. L. Polk & Co.
1973	AMES TAPING TOOL SYSTEMS INC	Pacific Telephone
1970	Ames Taping Tool Systems Inc dry wall & sups	R. L. Polk & Co. R. L. Polk & Co.

1424 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	GIR AUTO ELECTRIC GIR AUTO ELECTRIC	Haines R. L. Polk & Co.
1976	Westam Inc veterinary supplies	R. L. Polk & Co.
1970	Macs Produce Co whol	R. L. Polk & Co.
1965	CALLAWAY S MAC S PRODUCE CO	R. L. Polk & Co. R. L. Polk & Co.

1426 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CRAZYBUNZ CRAZYBUNZ	Haines R. L. Polk & Co.
1982	AMERICOM ELECTRONICS CORP HAYWARD	Pacific Telephone
1979	AMERICOM ELECTRONICS CORP HAYWARD 78575	Pacific Telephone
1976	Americom Electronics Corp electronics AMERICOM ELECTRONICS CORP	R. L. Polk & Co. R. L. Polk & Co.
1973	AMERICOM ELECTRONICS CORP	Pacific Telephone
1970	K D Books publ	R. L. Polk & Co.

FINDINGS

1428 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	TECHNIOUES	Haines
	MOTORSPORT	R. L. Polk & Co.
	TECHNIOUES	R. L. Polk & Co.
	MOTORSPORT	Haines
1982	HARCRO SALES LIMITED HAYWARD	Pacific Telephone
1970	Signet Testing Laboratory	R. L. Polk & Co.
1965	WHEELER MFG CO	R. L. Polk & Co.
	CUSTOM TRIM	R. L. Polk & Co.

1490 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	DRIVETHRU	R. L. Polk & Co.
	JACKINTHE BOX	R. L. Polk & Co.
	DRIVETHRU	Haines
	JACKINTHE BOX	Haines
1982	CASCADE CHEVRON HAYWARD	Pacific Telephone
	CHEVRON STATIONS	Pacific Telephone
1979	CASCADE CHEVRON	Pacific Telephone
	CENTER & HEYER	Pacific Telephone
1976	CASCADE CHEVRON	R. L. Polk & Co.
	Cascade Chevron	R. L. Polk & Co.
1973	CASCADE CHEVRON	Pacific Telephone

1500 W WINTON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	AIR VENT PATIOS HAYWARD	Pacific Telephone
1976	FASHION STORES INC THE HAYWARD 7836A	R. L. Polk & Co.
	Vacant	R. L. Polk & Co.
	HICKS H NELL	R. L. Polk & Co.
	BISTER EDWARD	R. L. Polk & Co.
	AIR VENT ALUMINUM AWNING CO	R. L. Polk & Co.
1973	MC CLAIN FRANK	Pacific Telephone
	AIR VENT ALUMINUM AWNING CO	Pacific Telephone
1970	AIR VENT ALUMINUM AWNING CO HAYWARD	Pacific Telephone Directory

FINDINGS

WINTON AVE W

1275 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	MANZELLAS SEAFOOD LOFT	PACIFIC BELL DIRECTORY

1316 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	CALIFORNIA STATE OF	PACIFIC BELL DIRECTORY

1320 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	PROTECTIVE OPTICS	PACIFIC BELL DIRECTORY

1321 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	PACIFIC ROLLER DIE CO INC	PACIFIC BELL DIRECTORY
1965	UNDER CONSTN	R. L. Polk & Co.

1326 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	HEERING WM M & ASSOCIATES	PACIFIC BELL DIRECTORY

1332 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	SMALL CLAIMS ADVANTAGE	PACIFIC BELL DIRECTORY
	J W B ASSOCIATES	PACIFIC BELL DIRECTORY

1376 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	KABLESERVICES OF AMERICA	PACIFIC BELL DIRECTORY
1965	JORGENSEN KATE MRS	R. L. Polk & Co.

1410 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	CUSTOM CONCEPTS	PACIFIC BELL DIRECTORY
	EDS CRANKSHAFTS	PACIFIC BELL DIRECTORY
1965	UNDER CONSTN	R. L. Polk & Co.

1414 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	CLAYTON INDUSTRIES	PACIFIC BELL DIRECTORY

FINDINGS

1418 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	NOVOTNY MACHINERY	PACIFIC BELL DIRECTORY
	KAY LYNE MANUFACTURING	PACIFIC BELL DIRECTORY

1420 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	K MOL ENGINEERING INC	PACIFIC BELL DIRECTORY

1422 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	BUN ON THE RUN	PACIFIC BELL DIRECTORY

1424 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	G & R AUTO ELECTRIC	PACIFIC BELL DIRECTORY

1426 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	AMERICOM ELECTRONICS CORP	PACIFIC BELL DIRECTORY

1428 WINTON AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	VACANT	R. L. Polk & Co.

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

1401 West Winton Avenue

Address Not Identified in Research Source

2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

1264 W Winton Ave

Address Not Identified in Research Source

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1270 W Winton Ave

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1274 W Winton Ave

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1275 W Winton Ave

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1275 W WINTON AVE

2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1275 WINTON AVE W

2014, 2010, 2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1294 W Winton Ave

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1316 W WINTON AVE

2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1316 WINTON AVE W

2014, 2010, 2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1318 W Winton Ave

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

1320 W Winton Ave

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
1428 WINTON AVE W	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 NORTH LN	2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1470 NORTH LN	2014, 2010, 2006, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 W WINTON AVE	2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1500 W WINTON AVE	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22743 CLAWITER RD	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22759 CLAWITER RD	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22800 SAKLAN RD	2014, 2010, 2006, 2000, 1996, 1993, 1991, 1986, 1984, 1980, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22800 Saklan Rd	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22891 CLAWITER RD	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22950 CLAWITER RD	2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22958 SAKLAN RD	2014, 2010, 2006, 2000, 1996, 1993, 1991, 1986, 1984, 1980, 1975, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22962 CLAWITER RD	2014, 2010, 2006, 2000, 1996, 1993, 1991, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
22990 CLAWITER RD	2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
23008 SAKLAN RD	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
23016 SAKLAN RD	2014, 2010, 2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
23024 CLAWITER RD	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920



Hayward Fire Station #6

1401 West Winton Avenue

Hayward, CA 94545

Inquiry Number: 5110454.9

November 17, 2017

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

11/17/17

Site Name:

Hayward Fire Station #6
1401 West Winton Avenue
Hayward, CA 94545
EDR Inquiry # 5110454.9

Client Name:

Trans Tech Consultants
930 Shiloh Road
Windsor, CA 95492
Contact: Bill Coset



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: July 10, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1974	1"=500'	Flight Date: October 14, 1974	USGS
1966	1"=500'	Flight Date: May 16, 1966	USDA
1963	1"=500'	Flight Date: June 24, 1963	USGS
1958	1"=500'	Flight Date: July 21, 1958	USGS
1946	1"=500'	Flight Date: July 29, 1946	USGS
1939	1"=500'	Flight Date: July 26, 1939	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



INQUIRY #: 5110454.9

YEAR: 2012

— = 500'





INQUIRY #: 5110454.9

YEAR: 2010

— = 500'





INQUIRY #: 5110454.9

YEAR: 2009

— = 500'





INQUIRY #: 5110454.9

YEAR: 2006

— = 500'





INQUIRY #: 5110454.9

YEAR: 2005

 = 500'





INQUIRY #: 5110454.9

YEAR: 1998

— = 500'





INQUIRY #: 5110454.9

YEAR: 1993

— = 500'





INQUIRY #: 5110454.9

YEAR: 1982

— = 500'



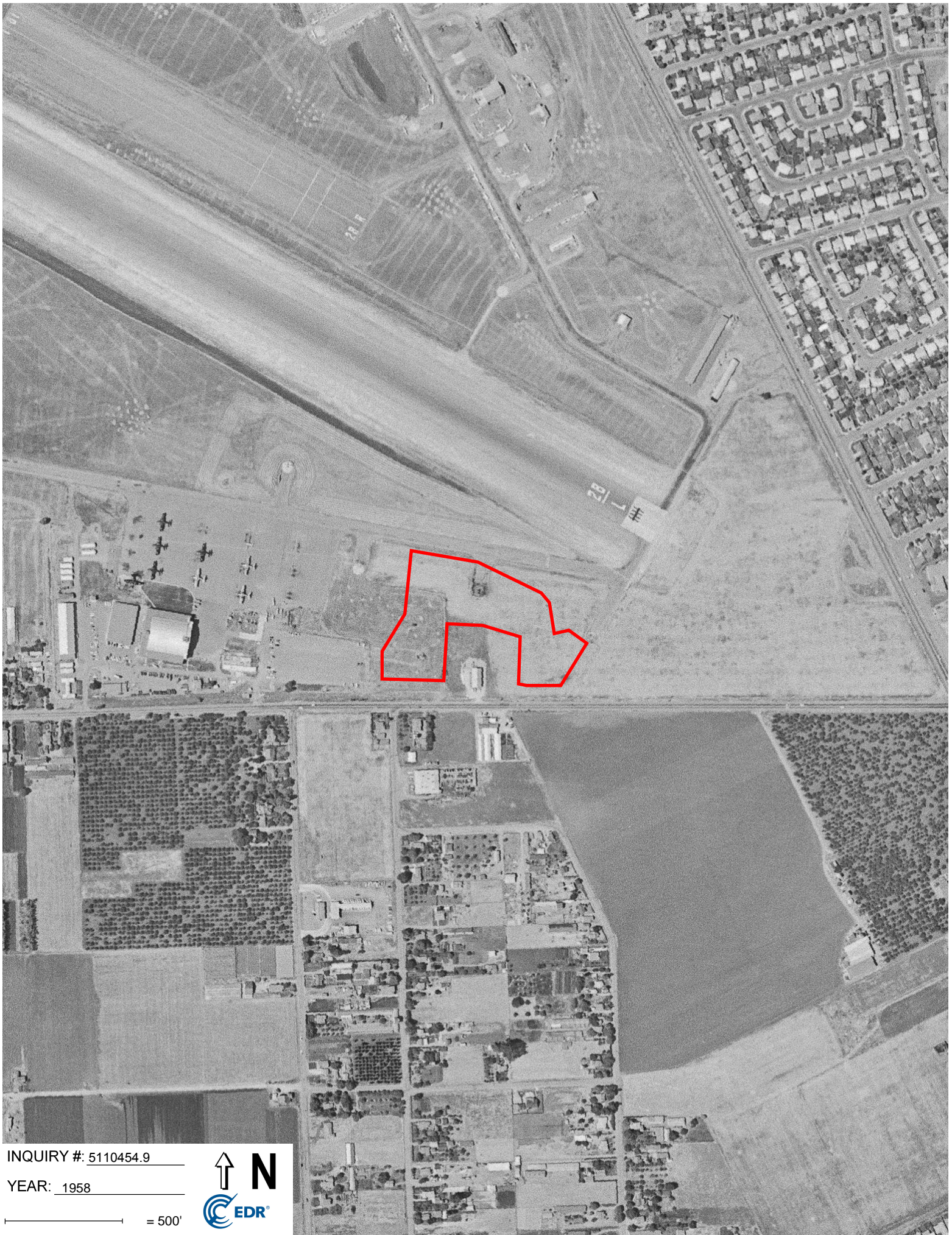


INQUIRY #: 5110454.9

YEAR: 1974

— = 500'



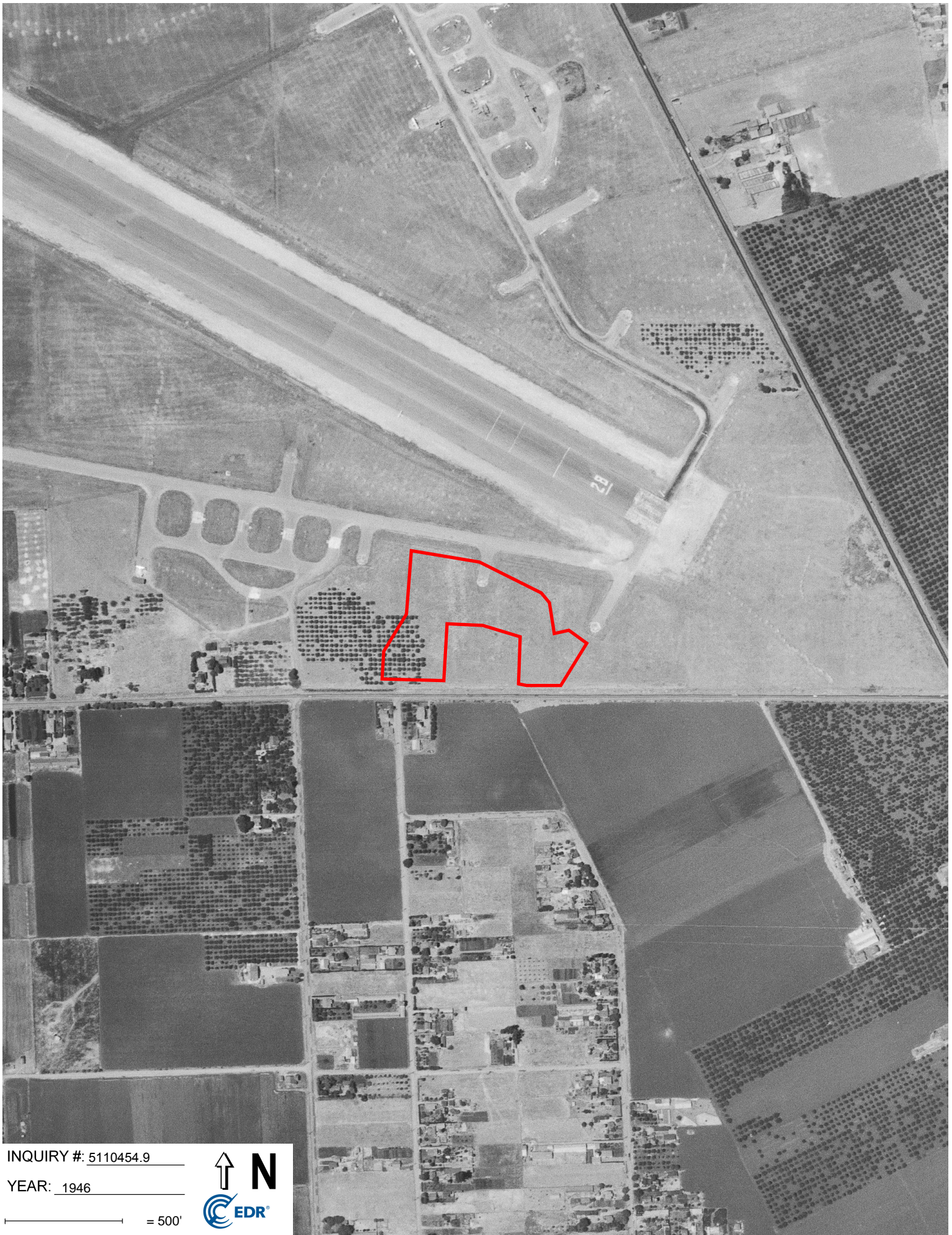


INQUIRY #: 5110454.9

YEAR: 1958

— = 500'



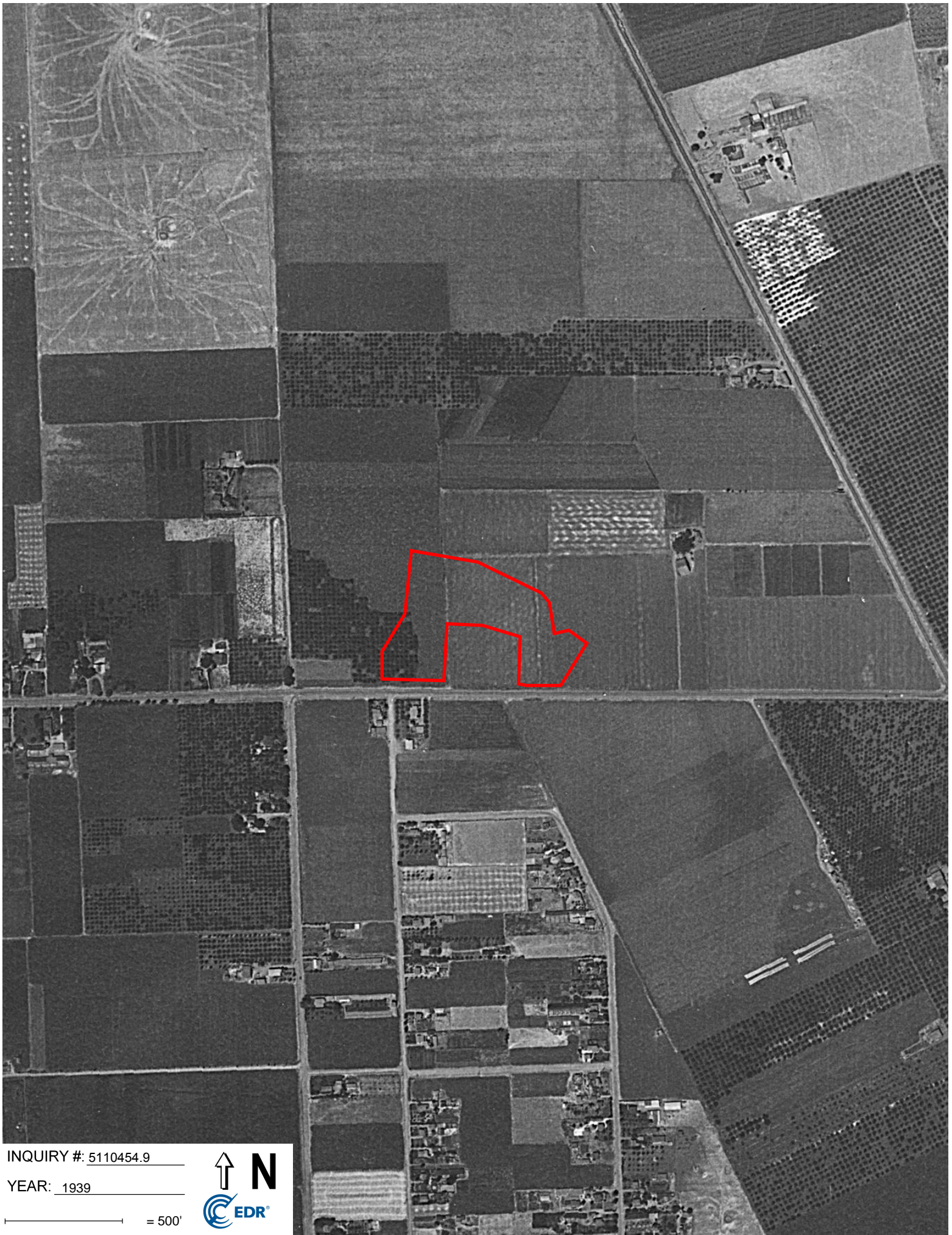


INQUIRY #: 5110454.9

YEAR: 1946

— = 500'





INQUIRY #: 5110454.9

YEAR: 1939

— = 500'





INQUIRY #: 5110454.9

YEAR: 1966

— = 500'






INQUIRY #: 5110454.9

YEAR: 1963

— = 500'





Hayward Fire Station #6
1401 West Winton Avenue
Hayward, CA 94545

Inquiry Number: 5110454.4

November 17, 2017

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Hayward Fire Station #6
1401 West Winton Avenue
Hayward, CA 94545

Inquiry Number: 5110454.3

November 17, 2017

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/17/17

Site Name:

Hayward Fire Station #6
1401 West Winton Avenue
Hayward, CA 94545
EDR Inquiry # 5110454.3

Client Name:

Trans Tech Consultants
930 Shiloh Road
Windsor, CA 95492
Contact: Bill Coset



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Trans Tech Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # A5AC-4ACD-90FB
PO # 2684.01
Project 1401 West Winton Avenue

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: A5AC-4ACD-90FB

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Trans Tech Consultants (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice. Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EDR Historical Topo Map Report

11/17/17

Site Name:

Hayward Fire Station #6
1401 West Winton Avenue
Hayward, CA 94545
EDR Inquiry # 5110454.4

Client Name:

Trans Tech Consultants
930 Shiloh Road
Windsor, CA 95492
Contact: Bill Coset



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Trans Tech Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	2684.01	Latitude:	37.654304 37° 39' 15" North
Project:	1401 West Winton Avenue	Longitude:	-122.117651 -122° 7' 4" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	577830.91
		UTM Y Meters:	4167826.58
		Elevation:	41.00' above sea level

Maps Provided:

2012	1915
1996	1899
1980	
1973	
1968	
1959	
1948, 1950	
1947	

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

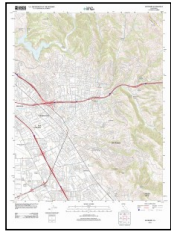
Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

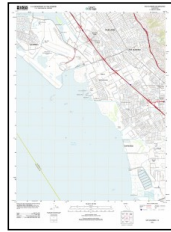
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

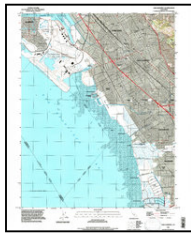


Hayward
2012
7.5-minute, 24000

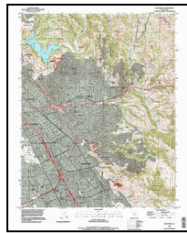


San Leandro
2012
7.5-minute, 24000

1996 Source Sheets



San Leandro
1996
7.5-minute, 24000
Aerial Photo Revised 1993



Hayward
1996
7.5-minute, 24000
Aerial Photo Revised 1993

1980 Source Sheets



Hayward
1980
7.5-minute, 24000
Aerial Photo Revised 1979



San Leandro
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets



San Leandro
1973
7.5-minute, 24000
Aerial Photo Revised 1973

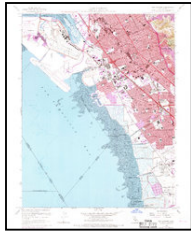


Hayward
1973
7.5-minute, 24000
Aerial Photo Revised 1973

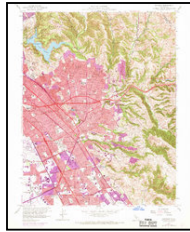
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets

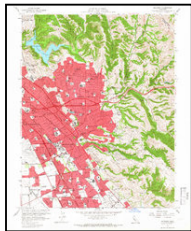


San Leandro
1968
7.5-minute, 24000
Aerial Photo Revised 1968



Hayward
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1959 Source Sheets



Hayward
1959
7.5-minute, 24000
Aerial Photo Revised 1958

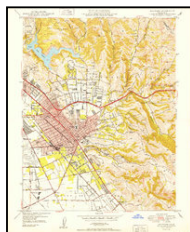


San Leandro
1959
7.5-minute, 24000
Aerial Photo Revised 1958

1948, 1950 Source Sheets



San Leandro
1948
7.5-minute, 24000



Hayward
1950
7.5-minute, 24000
Aerial Photo Revised 1946

1947 Source Sheets



San Leandro
1947
7.5-minute, 24000



Hayward
1947
7.5-minute, 24000
Aerial Photo Revised 1946

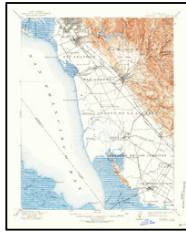
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1915 Source Sheets



Haywards
1915
15-minute, 62500

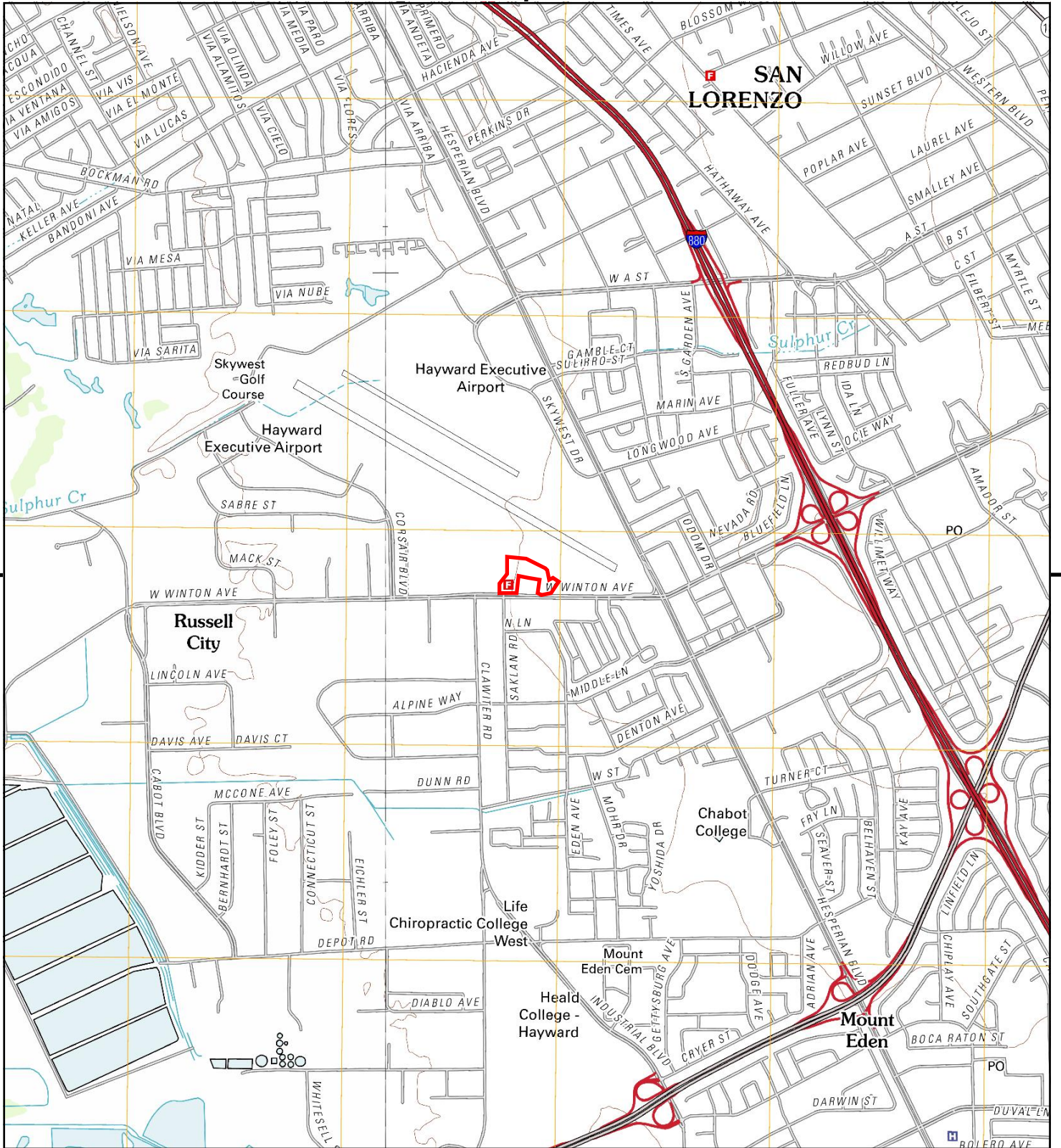


Hayward
1915
15-minute, 62500

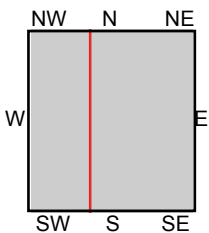
1899 Source Sheets



Haywards
1899
15-minute, 62500



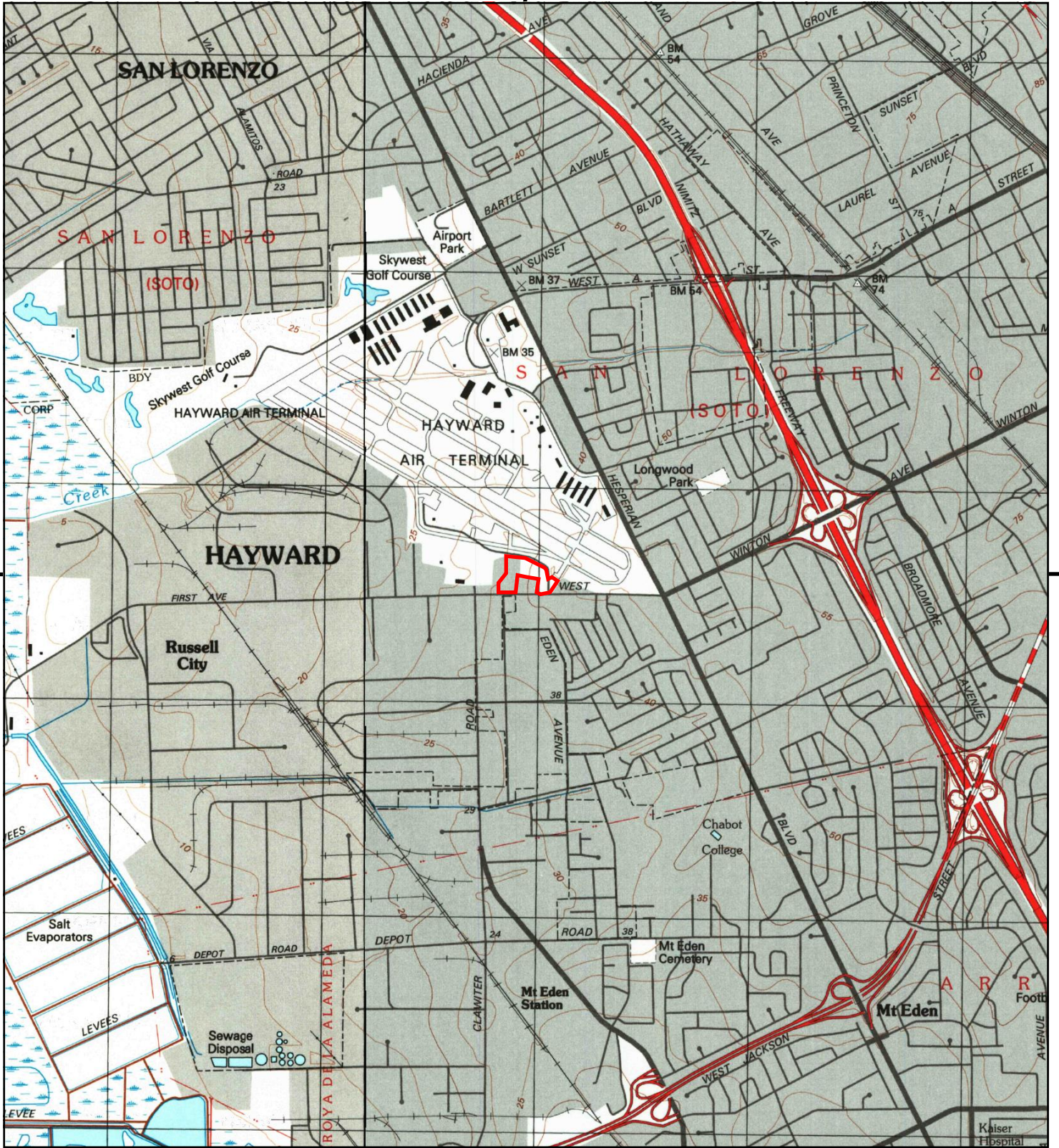
This report includes information from the following map sheet(s).



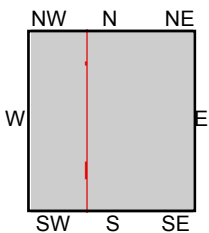
TP, Hayward, 2012, 7.5-minute
 NW, San Leandro, 2012, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





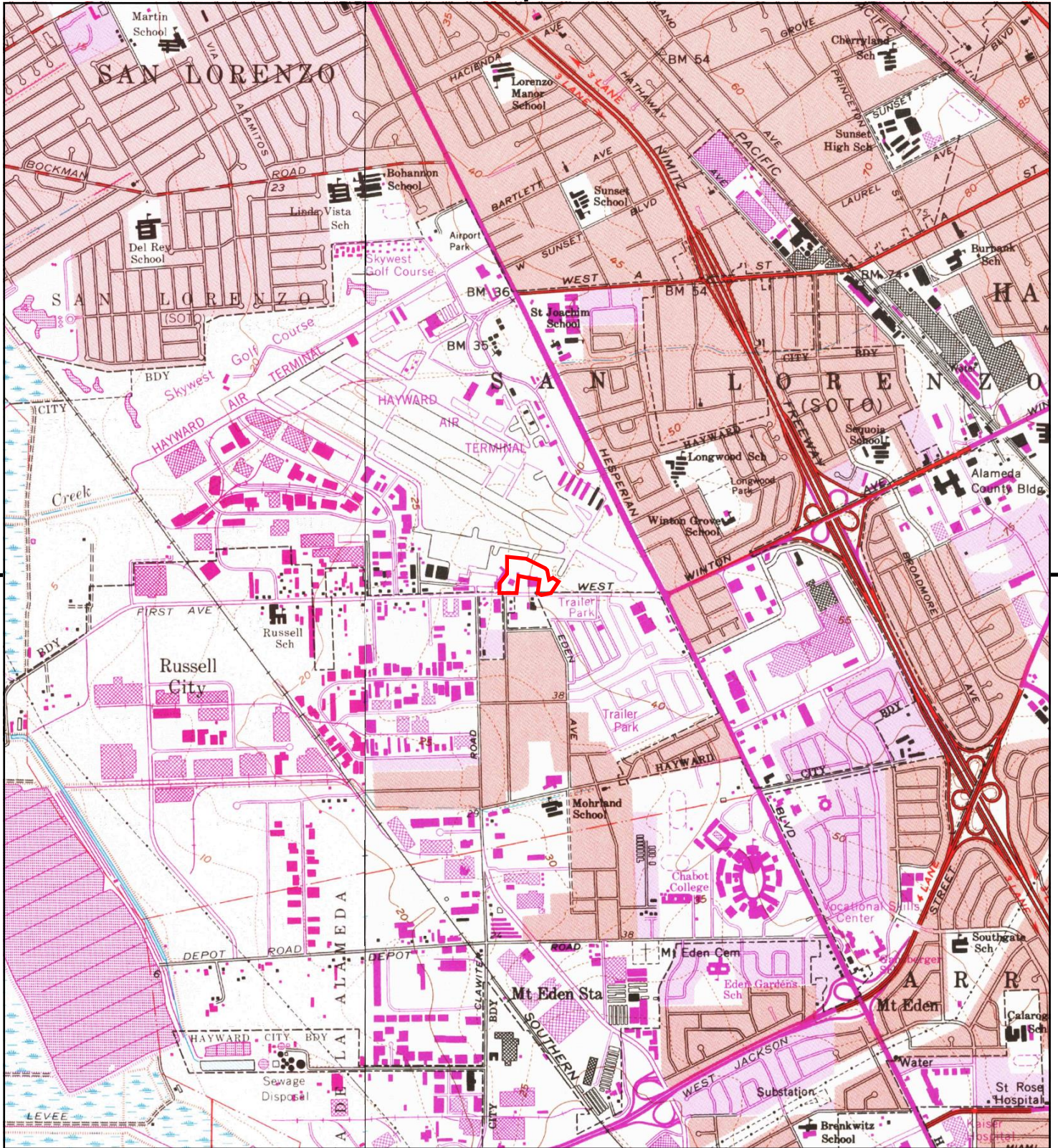
This report includes information from the following map sheet(s).



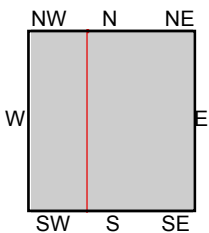
TP, Hayward, 1996, 7.5-minute
 NW, San Leandro, 1996, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





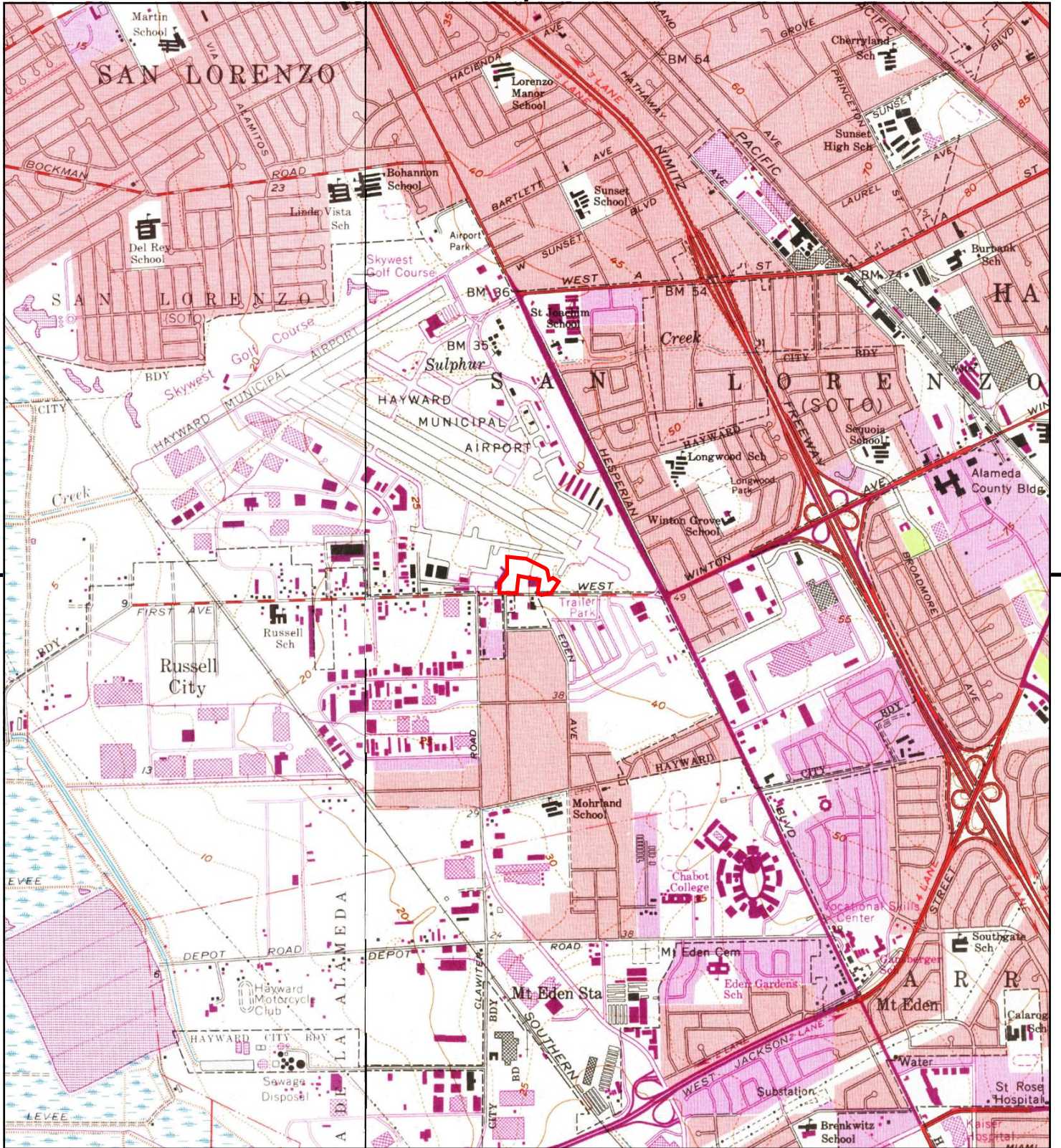
This report includes information from the following map sheet(s).



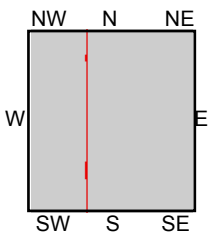
TP, Hayward, 1980, 7.5-minute
 NW, San Leandro, 1980, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





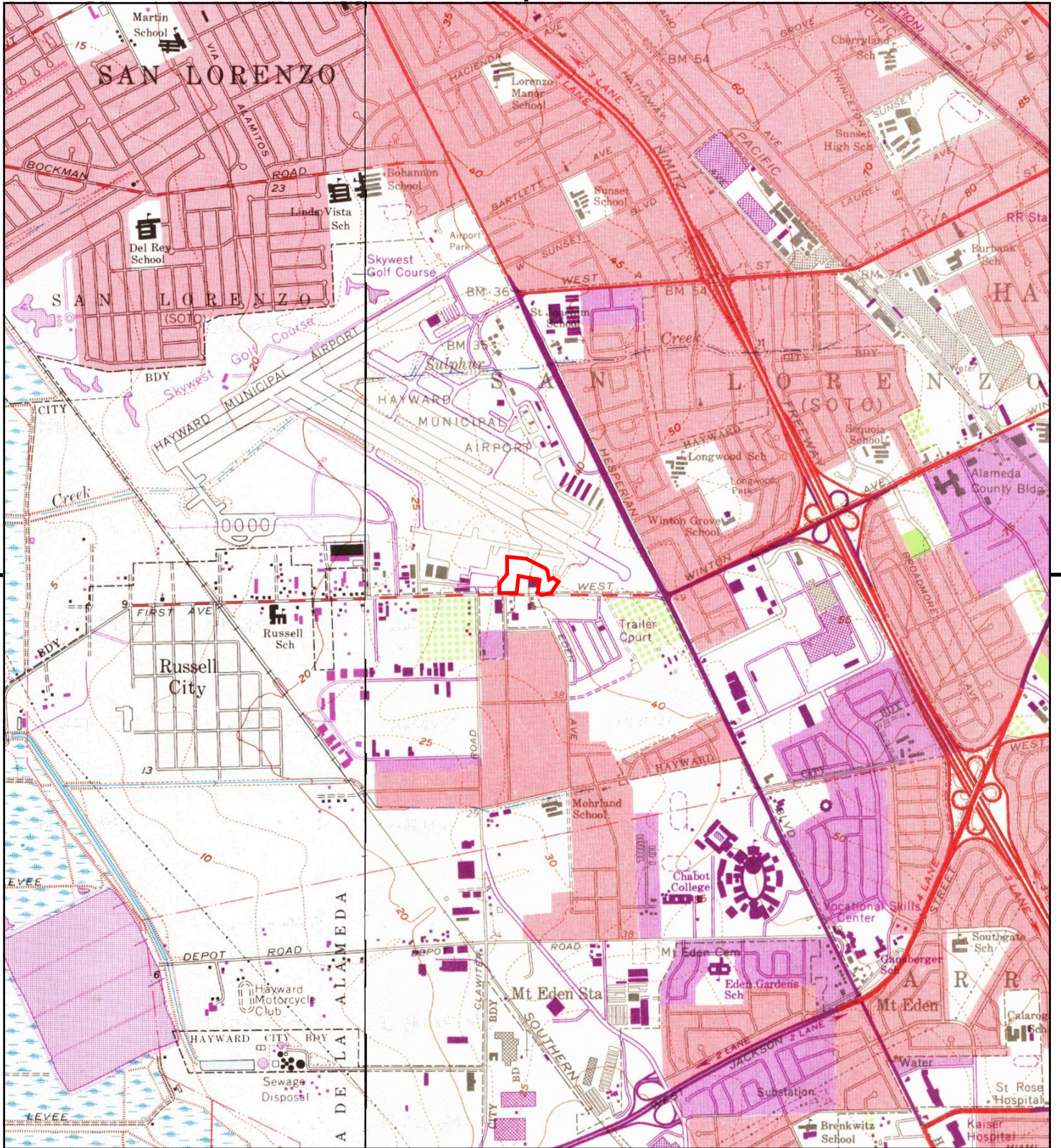
This report includes information from the following map sheet(s).



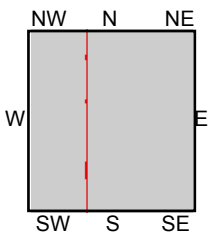
TP, Hayward, 1973, 7.5-minute
 NW, San Leandro, 1973, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





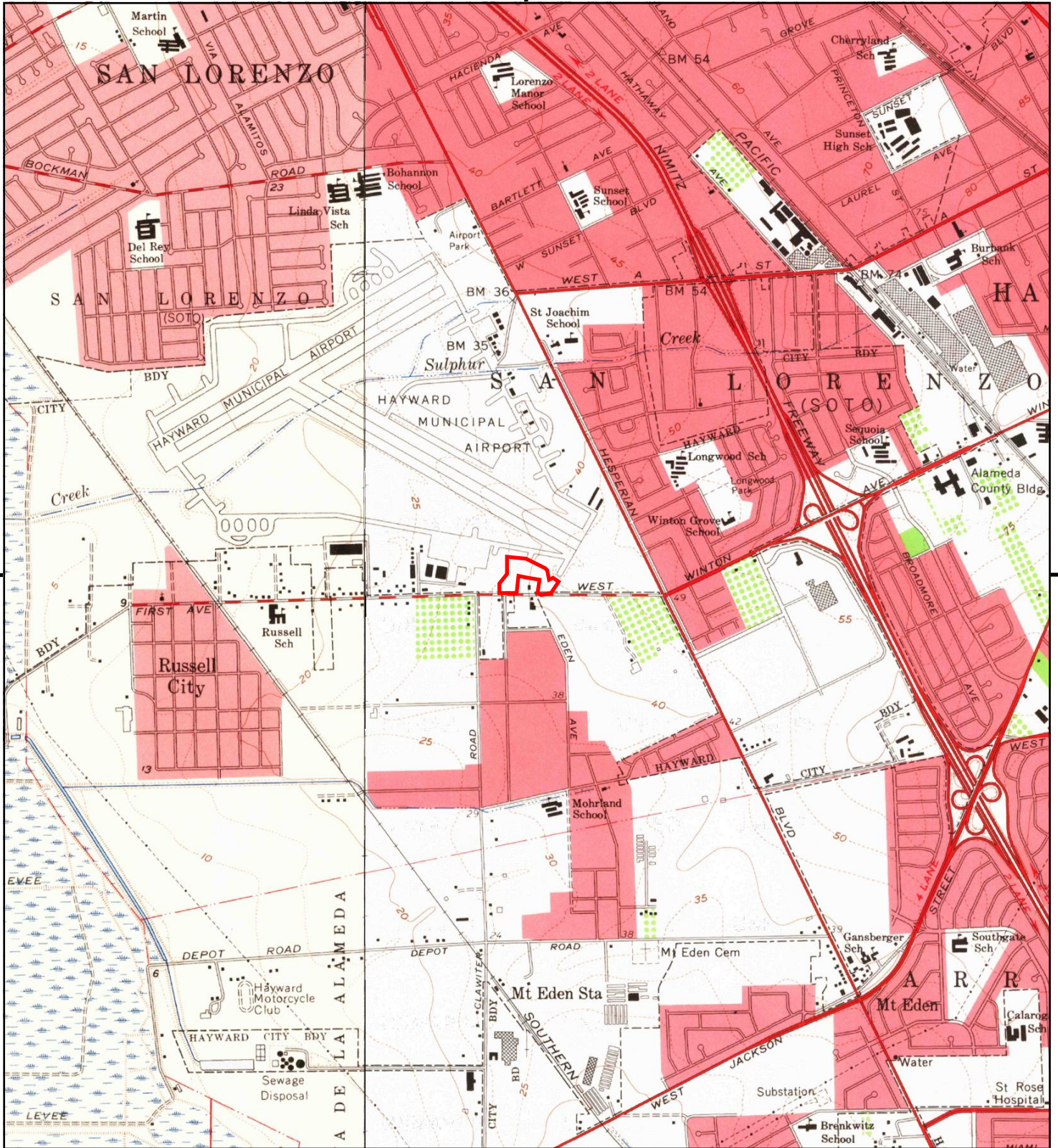
This report includes information from the following map sheet(s).



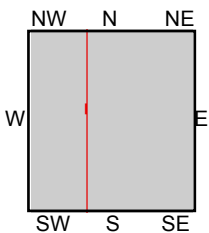
TP, Hayward, 1968, 7.5-minute
 NW, San Leandro, 1968, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





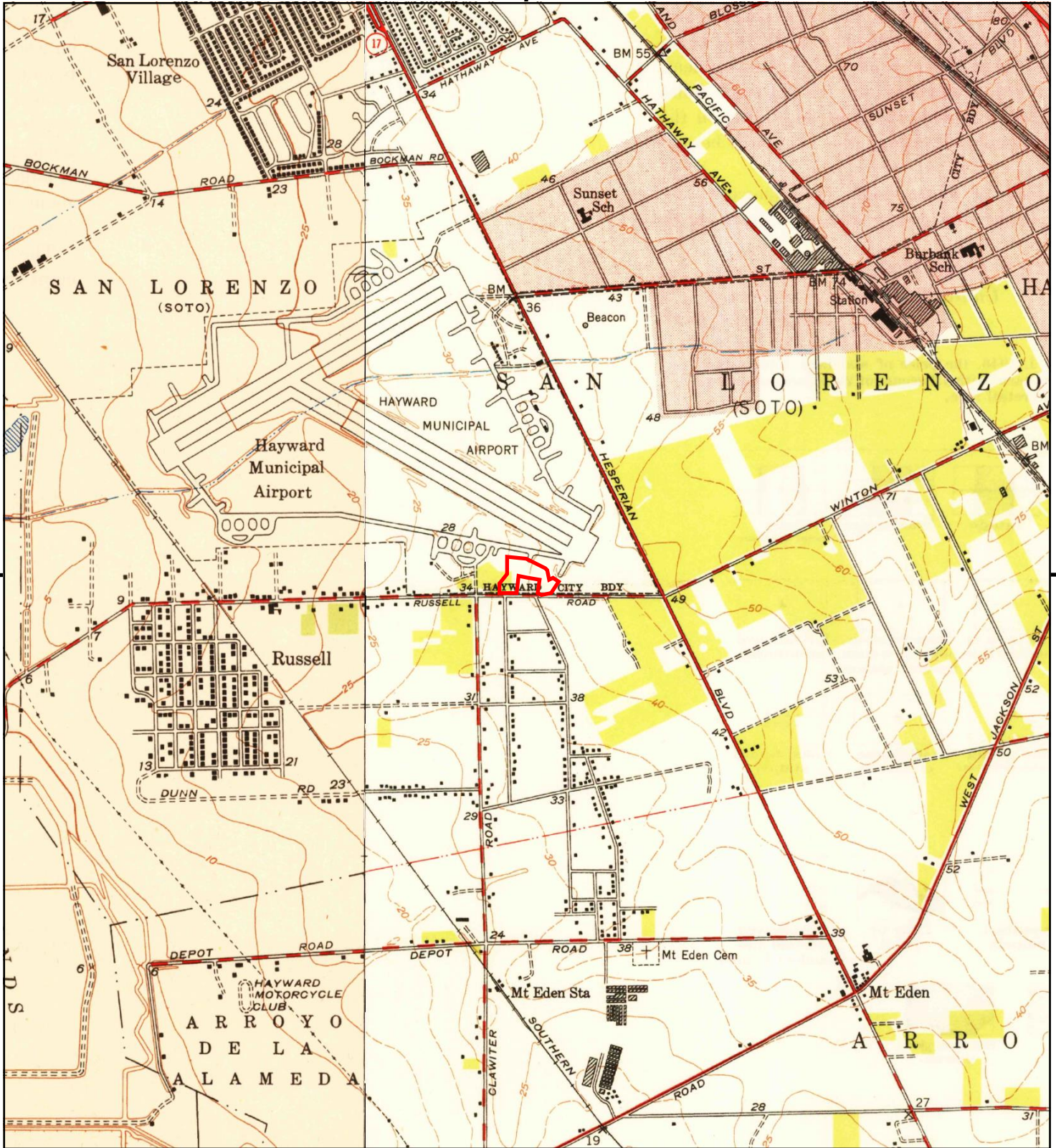
This report includes information from the following map sheet(s).



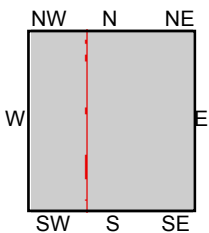
TP, Hayward, 1959, 7.5-minute
 NW, San Leandro, 1959, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





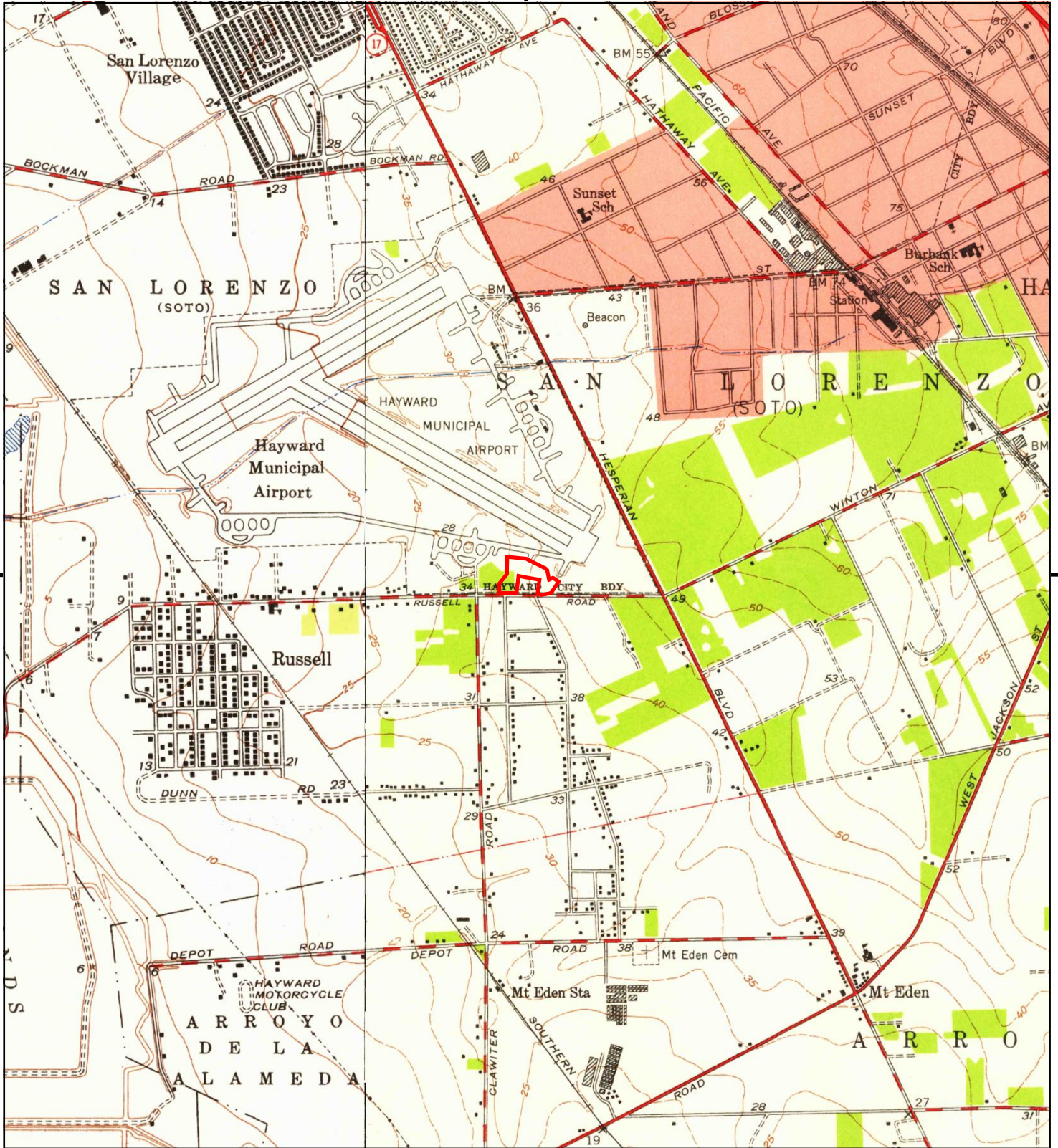
This report includes information from the following map sheet(s).



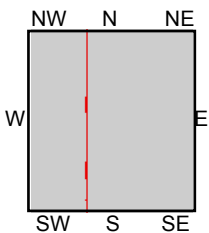
TP, Hayward, 1950, 7.5-minute
 NW, San Leandro, 1948, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





This report includes information from the following map sheet(s).



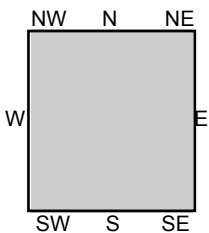
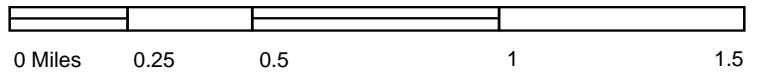
TP, Hayward, 1947, 7.5-minute
 NW, San Leandro, 1947, 7.5-minute

SITE NAME: Hayward Fire Station #6
ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
CLIENT: Trans Tech Consultants





This report includes information from the following map sheet(s).



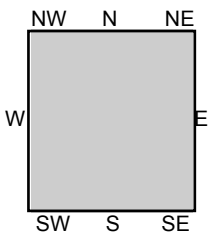
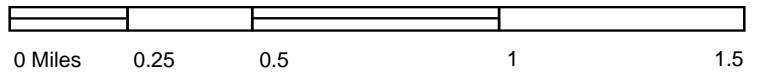
TP, Hayward, 1915, 15-minute
 TP, Hayward, 1915, 15-minute

SITE NAME: Hayward Fire Station #6
 ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
 CLIENT: Trans Tech Consultants





This report includes information from the following map sheet(s).



TP, Haywards, 1899, 15-minute

SITE NAME: Hayward Fire Station #6
 ADDRESS: 1401 West Winton Avenue
 Hayward, CA 94545
 CLIENT: Trans Tech Consultants



A.5 File Review Documents





EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

January 14, 2016

(Via email and Certified Mail)

Mr. Todd Rullman
Director of Maintenance Services
City of Hayward
24505 Soto Road
Hayward, California 94544
todd.rullman@hayward-ca.gov

CERTIFIED MAIL
NO. 7015 1520 0001 8019 5036

Mr. Garrett Contreras
Fire Chief
Hayward Fire Department
777 B Street, 4th Floor
Hayward, California 94541
garrett.contreras@hayward-ca.gov

CERTIFIED MAIL
NO. 7015 1520 0001 8019 5173

**SUBJECT: RETURN TO COMPLIANCE; UNDERGROUND STORAGE TANK SYSTEMS
LOCATED AT FIRE STATION #6, 1401 WEST WINTON AVENUE, HAYWARD**

Dear Mr. Rullman and Chief Contreras:

The State Water Resources Control Board is in receipt of documents you submitted in response to our June 4, 2015 Notice of Violation (NOV). The documents demonstrate that the ongoing violations cited in the NOV were corrected. Thank you for your cooperation.

Sincerely,

Amantha Henkel
Senior Environmental Scientist
UST Enforcement Unit
Office of Enforcement

cc: See next page.

cc: *(via email only)*

Mr. John Paine
Manager, Unified Program
California Environmental Protection Agency
john.paine@calepa.ca.gov

Ms. Laura Fisher, Chief
UST Leak Prevention and
Office of Tank Tester Licensing
laura.fisher@waterboards.ca.gov

Mr. David Boyers
Assistant Chief Counsel
Office of Enforcement
david.boyers@waterboards.ca.gov

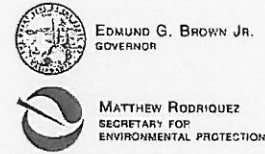
Mr. Hugh Murphy
Hazardous Materials Program Manager
City of Hayward Fire Department
hugh.murphy@hayward-ca.gov

Mr. Allen Koscinski
Acting Facilities Manager
City of Hayward
allen.koscinski@hayward-ca.gov

Mr. Steve Buscovich
Hazardous Materials Investigator
City of Hayward Fire Department
steve.buscovich@hayward-ca.gov

Mr. Miles Perez
Environmental Specialist
City of Hayward Fire Department
miles.perez@hayward-ca.gov

Ms. Elizabeth Sanchez
Management Analyst II
City of Hayward
liz.sanchez@hayward-ca.gov



State Water Resources Control Board

June 4, 2015

CERTIFIED MAIL
NO. 7014 2870 0001 3250 1373

Mr. Allen Koscinski
City of Hayward
777 B Street
Hayward, California 94541

**SUBJECT: NOTICE OF VIOLATION; UNDERGROUND STORAGE TANK SYSTEMS
LOCATED AT FIRE STATION #6, 1401 WEST WINTON AVENUE, HAYWARD**

Dear Mr. Koscinski:

As part of an initiative by the State Water Resources Control Board (State Water Board) to ensure compliance at government-owned and/or operated underground storage tank (UST) facilities in California, the State Water Board staff inspected the USTs at your facility on May 28, 2015, pursuant to authority under Health and Safety Code, chapter 6.7, section 25289.

The State Water Board has identified the following violations pursuant to Health and Safety Code (H&SC), chapter 6.7, and California Code of Regulations (CCR), title 23, chapter 16:

No.	Violation	Tank	Start Date	Stop Date	Regulation
1	Failure to Maintain Operating Permit On-Site – Permit to operate was not available at time of inspection.	All	May 28, 2015	Ongoing	23 CCR 2712(i)
2	Failures to Maintain Financial Responsibility – Chief Financial Officer letter out of date for all facilities.	All	May 28, 2015	Ongoing	23 CCR 2711(a)(11); H&SC 25292.2
3	Failure to Notify Local Agency of Designated Operator – The Owner Statement of Designated Operator document was not available at the time of inspection.	All	May 28, 2015	Ongoing	23 CCR 2715(a)
4	Failure to Affix Tag/Sticker on Monitoring Equipment Being Certified – A current annual monitoring certification tag is not affixed to the line leak detectors.	All	May 28, 2015	Ongoing	23 CCR 2638(f)

TEC

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

1001 I Street, Sacramento, CA 95814 | Mailing Address: P.O. Box 100, Sacramento, Ca 95812-0100 | www.waterboards.ca.gov

NOTICE TO COMPLY
(Summary of Violations)

Facility Name <i>City of Hayward - Facilities</i>	Facility Address <i>22700 Lam Street / 40 W. Winton, 28595 Hayward CA</i>
Facility Contact/Signature <i>hrz Sanchez</i>	Phone Number <i>31982 Redgar, 300 W. Winton</i>
Inspector <i>Jac</i>	Date of Inspection <i>11/6 & 11/7 of 2014</i>

Description of Corrective Action for Violation	
<input checked="" type="checkbox"/>	1. Hazardous Materials Reporting a. Submit a Hazardous Materials Business Plan (HMBP) <i>submit electronic draft</i>
<input type="checkbox"/>	b. Revise existing HMBP: _____
<input type="checkbox"/>	c. Submit a Hazardous Materials and Waste Registration
<input type="checkbox"/>	d. Submit an application for a permit/registration
<input type="checkbox"/>	e. Submit permit/registration fees of \$ _____
<input type="checkbox"/>	f. Submit Material Safety Data Sheets (MSDS)
2. Storage Requirements	
<input type="checkbox"/>	a. Relocate hazardous materials/waste storage area
<input type="checkbox"/>	b. Separate incompatible materials by 20 feet/noncombustible partition/separate storage cabinets
<input type="checkbox"/>	c. Provide secondary containment for _____
<input type="checkbox"/>	d. Properly label/store/recycle empty containers
<input type="checkbox"/>	e. Provide approved flammable liquids storage cabinet
<input type="checkbox"/>	f. Store unused chemicals in approved storage cabinets
<input type="checkbox"/>	g. Properly secure compressed gas cylinders
<input type="checkbox"/>	h. Reduce volume of regulated materials in storage area
<input type="checkbox"/>	i. Secure hazardous materials/waste storage area
<input type="checkbox"/>	j. Store contaminated rags in approved container with lid
<input type="checkbox"/>	k. Replace containers in poor condition/transfer contents
<input type="checkbox"/>	l. Replace containers incompatible with contents
<input type="checkbox"/>	m. Maintain clearance from combustibles
<input type="checkbox"/>	n. Label tanks with chemical name and hazards
3. Dispensing, Use and Mixing Requirements	
<input type="checkbox"/>	a. Provide approved dispensing system
<input type="checkbox"/>	b. Provide bonding and grounding for containers
<input type="checkbox"/>	c. Relocate dispensing, mixing area
<input type="checkbox"/>	d. Keep containers closed or sealed except during transfer
4. General Facility Requirements	
<input type="checkbox"/>	a. Clean secondary containment/maintain in dry state
<input type="checkbox"/>	b. Discontinue discharge of hazardous materials/wastes
<input type="checkbox"/>	c. Provide/maintain spill control supplies
<input type="checkbox"/>	d. Clean up spills and leaks immediately
<input type="checkbox"/>	e. Post NFPA 704 (diamond) placards at required locations

Description of Corrective Action for Violation	
<input type="checkbox"/>	f. Provide _____ extinguisher(s) with a min. rating of _____
<input type="checkbox"/>	g. Service fire extinguishers (annual service required)
<input type="checkbox"/>	h. Post "No Smoking" signs
<input type="checkbox"/>	i. Maintain adequate aisle space in _____
5. Hazardous Waste Requirements	
<input type="checkbox"/>	a. Obtain an EPA ID number for your facility
<input type="checkbox"/>	b. File an On-site Hazardous Waste Treatment Notification
<input type="checkbox"/>	c. Discontinue illegal treatment/recycling
<input type="checkbox"/>	d. Verify EPA ID numbers of HW transporter and TSDF
<input type="checkbox"/>	e. Determine if _____ is hazardous waste
<input type="checkbox"/>	f. Properly label hazardous waste containers
<input type="checkbox"/>	g. Dispose of hazardous waste within _____ days of the accumulation start date
<input type="checkbox"/>	h. Inspect container storage area weekly
<input type="checkbox"/>	i. Inspect tank system and surrounding area daily
<input type="checkbox"/>	j. Contaminated rags must be sent to an approved laundry
<input type="checkbox"/>	k. Properly label and manage used oil filters
<input type="checkbox"/>	l. Properly label and manage damaged batteries
6. Emergency Response Plan and Procedures	
<input type="checkbox"/>	a. Prepare/revise emergency response plan/contingency plan
<input type="checkbox"/>	b. Maintain copy of plan on-site
<input type="checkbox"/>	c. Familiarize Emergency Coordinator with plan
7. Recordkeeping	
<input type="checkbox"/>	a. Observe proper hazardous waste manifesting procedures
<input type="checkbox"/>	b. Retain hazardous waste manifests for 3 years
<input type="checkbox"/>	c. Retain Land Disposal Restriction certificates for 5 years
<input type="checkbox"/>	d. Retain hazardous waste analyses for 3 years
<input type="checkbox"/>	e. Submit a Biennial Report
<input type="checkbox"/>	f. Retain milkrun receipts for 3 years
<input type="checkbox"/>	g. Retain training records for 3 years
8. Personnel Training	
<input type="checkbox"/>	a. Provide emergency response training annually
<input type="checkbox"/>	b. Train new employees within 6 months of hire
<input type="checkbox"/>	c. Maintain adequate training documentation on-site

Comments: *1 For said OOH-Facility locations, please complete & submit a ~~draft~~ draft electronic submittal through CERIS w/lti 30 days. The facility is encouraged to contact w/lti 3rd Party contractor AccuTEC or other qualified consultant for compliance*
2 Submit electronically to me results of 989 test for all locations completed in 12/2014 w/lti 10 days
3 Return this Notice to Comply w/lti 30 days or when items are complete

All minor violations noted above must be corrected within _____ days. Within 5 days of correcting all violations, sign below and return the signed original of this Notice to this office. Additional comments or other violations are listed in the inspection reports. The facility is subject to re-inspection at any time.

I have corrected all of the minor violations noted above.

No.	Violation	Tank	Start Date	Stop Date	Regulation
5	Failure to Perform Designated Operator Training – Designated operator training records were not available at the time of inspection.	All	May 28, 2015	Ongoing	23 CCR 2715(f)
6	Failure to Maintain Designated Operator Reports On-Site – Monthly designated operator reports were not available at the time of inspection.	All	May 28, 2015	Ongoing	23 CCR 2715(e)
7	Failure to Monitor Product Piping – The sensor in the turbine sump is not able to detect a leak at the earliest possible opportunity because the Schrader valve on the vent test boot is incorrectly positioned upward. The test boot must be pulled back from the secondary pipe exposing the interstitial space or the Schrader valve must be pointed downward between 3 and 9 o'clock position with the cap and the valve core removed.	Diesel	May 28, 2015	Ongoing	23 CCR 2630(d)
8	Failure to Maintain Testing Documents On-Site – The following documents were not available during inspection: Annual monitoring certifications, line leak detector and spill containment test conducted in 2013 and 2014; secondary containment testing conducted in 2014 and repair testing from 2011.	All	May 28, 2015	Ongoing	23 CCR 2712(b); H&SC 25293

TEC The metal around the float trip in the Bravo under dispenser container (UDC) is corroded. In reviewing the photographs taken during the facility inspection, the float appears to be in the up (trip) position. Please confirm proper operation of the UDC monitoring device.

You are directed to correct the ongoing violations and submit compliance documentation to the State Water Board and City of Hayward Fire Department within sixty (60) days from the date of this letter. Have your Designated Operator make specific notations in the next monthly designated operator report indicating the ongoing violations have been corrected. The monthly designated operator report and any associated photos must be submitted as proof of compliance.

Please send all compliance documentation to the following:

State Water Board
 Mr. Thomas Henderson
 UST Enforcement Unit
 1001 I Street, 16th Floor
 Sacramento, California 95814
tom.henderson@waterboards.ca.gov

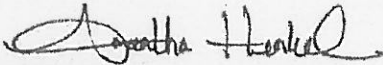
Local CUPA
 Mr. Miles Perez
 City of Hayward Fire Department
 777 B Street,
 Hayward, California 94541
miles.perez@hayward-ca.gov

June 4, 2015

Pursuant to Health and Safety Code, chapter 6.7, section 25299, the owner and operator of the tank(s) are liable for a penalty of \$500 to \$5,000 per tank, per day of violation. These penalties will continue to accrue until the violations have been corrected.

If you have any questions, please contact me by telephone at (916) 341-5551, or by email at amantha.henkel@waterboards.ca.gov.

Sincerely,



Amantha Henkel
Senior Environmental Scientist
UST Enforcement Unit
Office of Enforcement

cc: (via email only)

Mr. Hugh Murphy
Hazardous Materials Program Manager
City of Hayward Fire Department
hugh.murphy@hayward-ca.gov

Mr. Miles Perez
City of Hayward Fire Department
miles.perez@hayward-ca.gov

Hugh Murphy

From: Maher, Renae@Waterboards <renae.maher@waterboards.ca.gov>
Sent: Tuesday, December 15, 2015 4:19 PM
To: Todd Rullman; Garrett Contreras
Cc: Hugh Murphy; Henkel, Amantha@Waterboards; Green, Rebecca@Waterboards; Boyers, David@Waterboards; Allen Koscinski; Miles Perez; Liz Sanchez
Subject: Final Notice for Hayward Fire Station #6, 1401 West Winton Avenue, Hayward
Attachments: 2015_12_15_Final Notice_1401 West Winton.pdf
Importance: High

Mr. Rullman and Mr. Contreras:

Please find attached, a Final Notice regarding the underground storage tank (UST) system located at Hayward Fire Station #6, 1401 West Winton Avenue in Hayward, California. This Final Notice was also sent to you via certified mail today, December 15, 2015.

Regards,

Renae Maher

Executive Assistant
Office of Enforcement
State Water Resources Control Board
1001 I Street, 16th Floor
Sacramento, CA 95814
(916) 341-5273
Renae.Maher@waterboards.ca.gov



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

December 15, 2015

(Via email and Certified Mail)

Mr. Todd Rullman
Director of Maintenance Services
City of Hayward
24505 Soto Road
Hayward, California 94544
todd.rullman@hayward-ca.gov

CERTIFIED MAIL
NO. 7015 1520 0001 8019 5760

Mr. Garrett Contreras
Fire Chief
Hayward Fire Department
777 B Street, 4th Floor
Hayward, California 94541
garrett.contreras@hayward-ca.gov

CERTIFIED MAIL
NO. 7015 1520 0001 8019 5753

SUBJECT: FINAL NOTICE; UNDERGROUND STORAGE TANK SYSTEMS LOCATED AT CITY OF HAYWARD FIRE STATION #6, 1401 WEST WINTON AVENUE, HAYWARD

Dear Mr. Rullman and Chief Contreras:

As part of an initiative by the State Water Resources Control Board (State Water Board) to obtain compliance at government-owned and/or operated underground storage tank (UST) facilities, you were issued a Notice of Violation (NOV) on June 4, 2015, and a subsequent Failure to Comply letter on August 26, 2015, related to ongoing violations of California's UST requirements. To date, we have not received all compliance documentation for the ongoing violations or any indication of when such documentation is to be expected.

The State Water Board's Office of Enforcement directs you to correct the ongoing violations identified in the NOV and submit compliance documentation to the State Water Board and the local Certified Unified Program Agency (CUPA) within ten (10) days from the date of this letter.

All compliance documentation must be sent to the following:

State Water Board
Mr. Tom Henderson
UST Enforcement Unit
State Water Resources Control Board
1001 I Street, 16th Floor
Sacramento, California 95814
tom.henderson@waterboards.ca.gov

Local CUPA
Mr. Miles Perez
Environmental Specialist
City of Hayward Fire Department
777 B Street
Hayward, California 94541
miles.perez@hayward-ca.gov

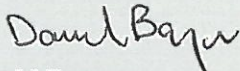
FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

1001 I Street, Sacramento, CA 95814 | Mailing Address: P.O. Box 100, Sacramento, Ca 95812-0100 | www.waterboards.ca.gov

This letter will be your final notice. Failure to comply with this notice may result in enforcement action by the State Water Board and/or City of Hayward Fire Department. Your continued failure to comply is considered a "significant violation" as defined in section 2717(a)(3) of title 23, California Code of Regulations (CCR). In a separate letter, the State Water Board has requested City of Hayward Fire Department to issue you a notice of significant violation in accordance with CCR section 2717.1(b). If you fail to correct the violations to the satisfaction of City of Hayward Fire Department, a red tag may be affixed to the fill pipe of the non-compliant UST system(s) prohibiting the delivery of petroleum until the violations are corrected. Each day in which the violations are not corrected may also result in the imposition of civil penalties of no less than \$500 and no more than \$5,000 per tank, as authorized by section 25299 of the Health and Safety Code.

If you have any questions, please contact me at (916) 341-5276 or by email at david.boyers@waterboards.ca.gov.

Sincerely,



David Boyers
Assistant Chief Counsel
Office of Enforcement

cc: *(via email only)*

Mr. Hugh Murphy
Hazardous Materials Program Manager
City of Hayward Fire Department
hugh.murphy@hayward-ca.gov

Mr. Allen Koscinski
Acting Facilities Manager
City of Hayward
allen.koscinski@hayward-ca.gov

Mr. Miles Perez
Environmental Specialist
City of Hayward Fire Department
miles.perez@hayward-ca.gov

Ms. Elizabeth Sanchez
Management Analyst II
City of Hayward
liz.sanchez@hayward-ca.gov

Hugh Murphy

From: Maher, Renae@Waterboards <renae.maher@waterboards.ca.gov>
Sent: Tuesday, December 15, 2015 4:17 PM
To: Hugh Murphy
Cc: Paine, John@EPA; Fisher, Laura@Waterboards; Henkel, Amantha@Waterboards; Henderson, Tom@Waterboards; Boyers, David@Waterboards
Subject: Red Tag Authority Notice for Hayward Fire Station #6, 1401 West Winton Avenue, Hayward
Attachments: 2015_12_15_Red Tag Authority_1401 West Winton.pdf
Importance: High

Mr. Murphy:

Please find attached, a Red Tag Notice regarding the underground storage tank (UST) system located at Hayward Fire Station #6, 1401 West Winton Avenue in Hayward, California. This Red Tag Notice was also sent to you via certified mail today, December 15, 2015.

Regards,

Renae Maher

Executive Assistant
Office of Enforcement
State Water Resources Control Board
1001 I Street, 16th Floor
Sacramento, CA 95814
(916) 341-5273
Renae.Maher@waterboards.ca.gov



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

December 15, 2015

(Via email and Certified Mail)
CERTIFIED MAIL
NO. 7015 0920 0001 4893 8407

Mr. Hugh Murphy
Hazardous Materials Program Manager
City of Hayward Fire Department
777 B Street,
Hayward, California 94541
hugh.murphy@hayward-ca.gov

SUBJECT: RED TAG AUTHORITY; UNDERGROUND STORAGE TANK SYSTEMS LOCATED AT CITY OF HAYWARD FIRE STATION #6, 1401 WEST WINTON AVENUE, HAYWARD

Dear Mr. Murphy:


As part of an initiative by the State Water Resources Control Board (State Water Board) to ensure compliance at government-owned and/or operated underground storage tank (UST) facilities in California, the State Water Board inspected the USTs at 1401 West Winton Avenue in Hayward on May 28, 2015.

A Notice of Violation (NOV) letter was sent to the operator on June 4, 2015, and a Failure to Comply letter was sent to the operator on August 26, 2015. City of Hayward Fire Department was courtesy copied on both of these documents. To date, we have not received all compliance documentation for the ongoing violations or any indication of when such documentation is to be expected.

Since the operator has been recalcitrant in correcting the violations, there is sufficient justification to classify the violations as "significant" in accordance with section 2717(a)(3) of title 23, California Code of Regulations. Pursuant to section 2717.1(b), the local agency has the authority to red tag a facility if significant violations are discovered and go uncorrected by the owner or operator. The State Water Board requests that the local agency issue a notice of significant violation and be prepared to affix a red tag at this facility if the violations are not corrected within ten (10) days. Please forward to the State Water Board a copy of the Notice of Significant Violation, and, if it becomes necessary, evidence that the red tag has been issued.

If you have any questions, please contact me at (916) 341-5276 or by email at david.boyers@waterboards.ca.gov.

Sincerely,


David Boyers
Assistant Chief Counsel
Office of Enforcement

cc: See next page.

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

1001 I Street, Sacramento, CA 95814 | Mailing Address: P.O. Box 100, Sacramento, Ca 95812-0100 | www.waterboards.ca.gov

cc: *(via email only)*

Mr. John Paine
Manager, Unified Program
California Environmental Protection Agency
john.paine@calepa.ca.gov

Ms. Laura Fisher, Chief
UST Leak Prevention and
Office of Tank Tester Licensing
laura.fisher@waterboards.ca.gov



California Regional Water Quality Control Board

San Francisco Bay Region



Linda S. Adams
Secretary for
Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
<http://www.waterboards.ca.gov/sanfranciscobay>

Arnold Schwarzenegger
Governor

July 16, 2009
File No. 01-0634 (myl)

City of Hayward
Attn: Jodi Pascual (jodi.pascual@hayward-ca.gov)
777 B Street
Hayward, CA 94541

SUBJECT: Transmittal of Closure Letter and Summary, City of Hayward Fire Station #6,
1401 W. Winton Avenue, Hayward, Alameda County

Dear Ms. Pascual:

Attached please find the uniform underground storage tank closure letter and the site closure summary for the subject site. No further action related to the petroleum releases at the site is required provided that the land use of the property remains commercial/industrial.

If you have any questions, please contact Marcia Liao of my staff at (510) 622-2377 or mliao@waterboards.ca.gov.

Sincerely,

Chuck Headlee
for

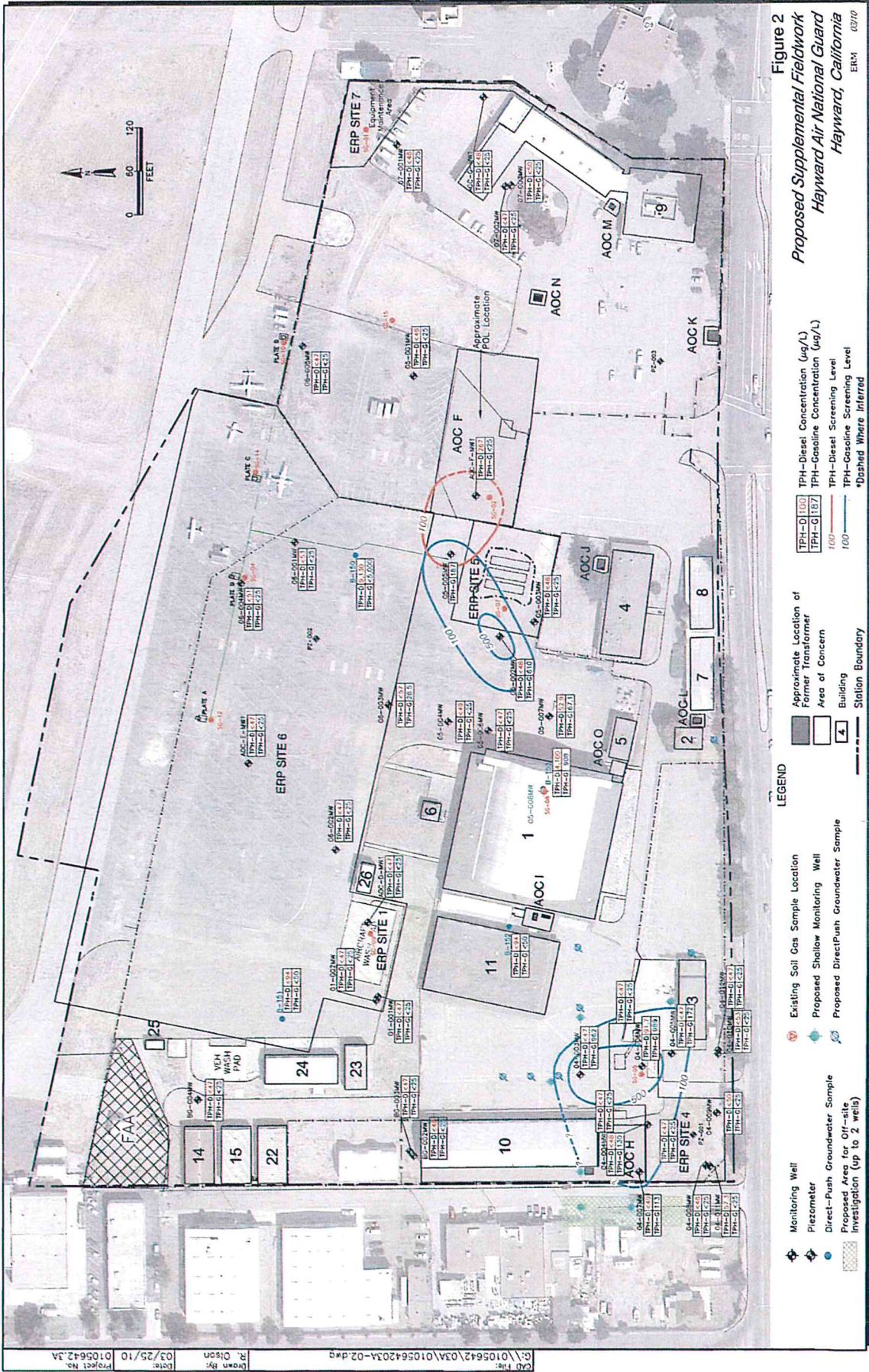
Digitally signed by Chuck Headlee
DN: cn=Chuck Headlee, o=Regional Water
Quality Control Board, ou=Toxics Cleanup
division, email=cheadlee@waterboards.
ca.gov, c=US
Date: 2009.07.16 10:22:31 -07'00'

Bruce H. Wolfe
Executive Officer

Attachments: Closure Letter
Site Closure Summary

cc: Mailing List (w/ attachments)

Preserving, enhancing, and restoring the San Francisco Bay Area's waters for over 50 years



CAD File: C:\1015642\03A\010564203A-02.dwg
 Drawn By: R. Olson
 Date: 03/25/10
 Project No: 1015642_3A

SECONDARY CONTAINMENT TEST REPORT FORM

This form is intended for use by contractors performing periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name: Hayward Fire Dept. - Station # 6	Date of Testing: October 17, 2011
Facility Address: 1401 W. Winton Hayward, CA 94545	
Facility Contact: Elizabeth Sanchez, Maintenance Services Dept.	Phone: (510) 583-4822
Date Local Agency Was Notified of Testing :	
Name of Local Agency Inspector (if present during testing): Miles J. Perez	

2. TESTING CONTRACTOR INFORMATION

Company Name: TEC Accutite		
Technician Conducting Test: Mario Romero		
Credentials:	<input checked="" type="checkbox"/> CSLB Licensed Contractor	<input type="checkbox"/> SWRCB Licensed Tank Tester
License Type: AHAZBC36	License Number: 762034	
Manufacturer Training		
Manufacturer	Component(s)	Date Training Expires
Incon	Sump Test System Operation [TS-ST5 Sump Tester]	July 28 2013

3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
Annular Space - Tank #1 [87]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annular space - Tank #2 diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary piping - Product [87]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary piping - Vent Diesel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary piping - Product diese	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary piping - Vent [87]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary piping - Generator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping Sump - Tank #1 [87]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping Sump - Diesel Product	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Under Dispenser - 1 Unleaded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Under Dispenser - 2 Diesel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature: *Mario Romero*

Date: Oct 17, 2011

4. TANK ANNULAR TESTING

Test Method Developed By: <input type="checkbox"/> Tank Manufacturer <input checked="" type="checkbox"/> Industry Standard <input type="checkbox"/> Professional Engineer <input type="checkbox"/> Other (Specify)				
Test Method Used: <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Other (Specify)				
Test Equipment Used: Analog Gauge			Equipment Resolution: +/- 0.02"	
	<u>Tank #</u> Unleaded	<u>Tank #</u> Diesel	<u>Tank #</u>	<u>Tank #</u>
Is Tank Exempt From Testing? ¹	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tank Capacity:	1,000 gals	1,000 gals		
Tank Material:	Fiberglass	Fiberglass		
Tank Manufacturer:	Unknown	Unknown		
Product Stored:	87	Diesel		
Wait time between applying pressure/vacuum/water and starting test:				
Test Start Time:				
Initial Reading (R _i):				
Test End Time:				
Final Reading (R _f):				
Test Duration:				
Change in Reading (R _f -R _i):				
Pass/Fail Threshold or Criteria:				
Test Result:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Was sensor removed for testing?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Was sensor properly replaced after testing?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

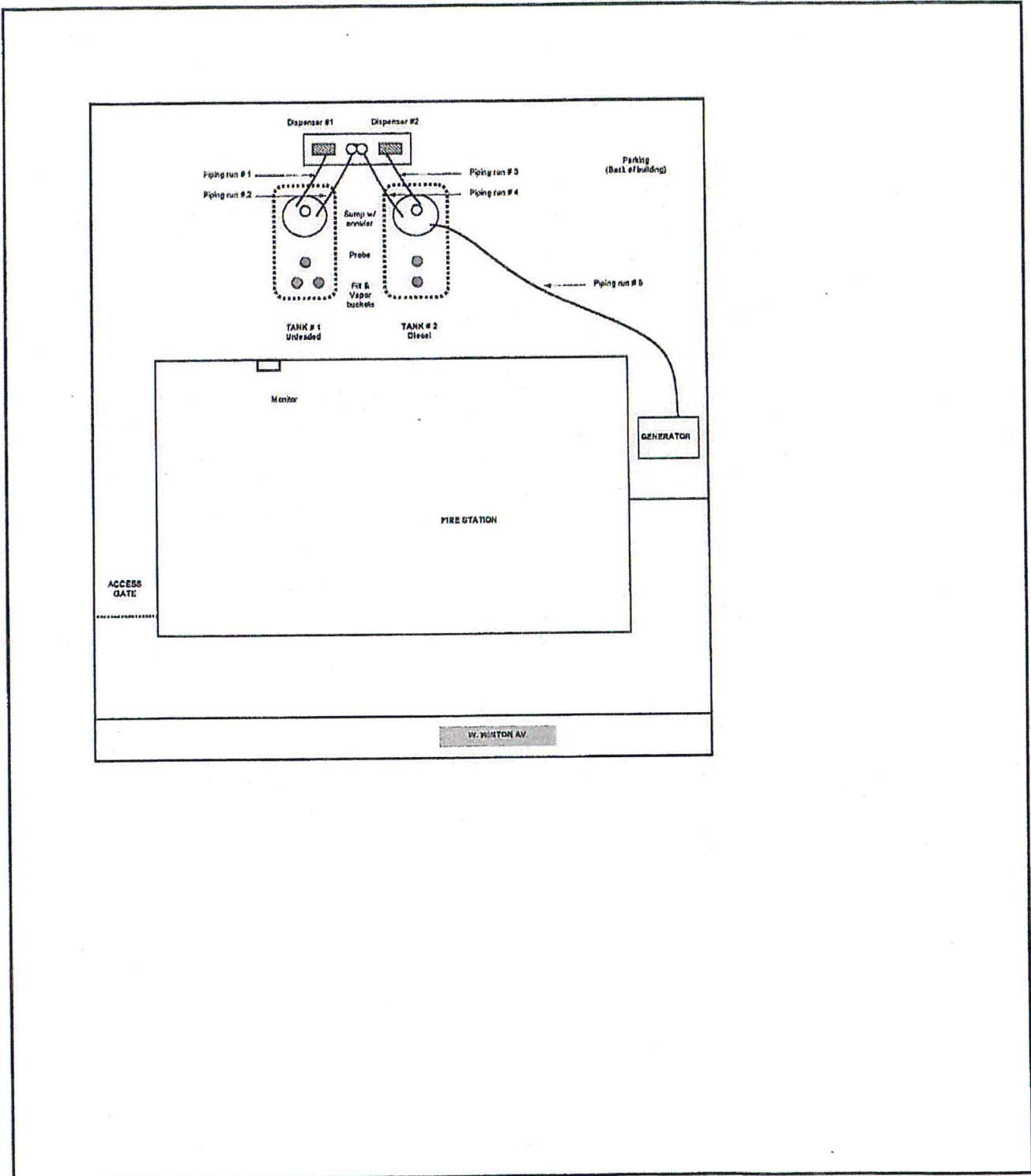
Comments – (include information on repairs made prior to testing, and recommended follow-up for failed tests)

TANK EXEMPTED; ANNULAR SPACE IS UNDER CONTINUOUS MONITORING (BRINE)

¹ Secondary containment systems where the continuous monitoring automatically monitors both the primary and secondary containment, such as systems that are hydrostatically monitored or under constant vacuum, are exempt from periodic containment testing. (California Code of Regulations, Title 23, Section 2637(a)(6))

9. UST MONITORING SITE PLAN

Site Address: 1401 W. Winton Hayward, CA 94545



Date map was drawn: 11/01/2011

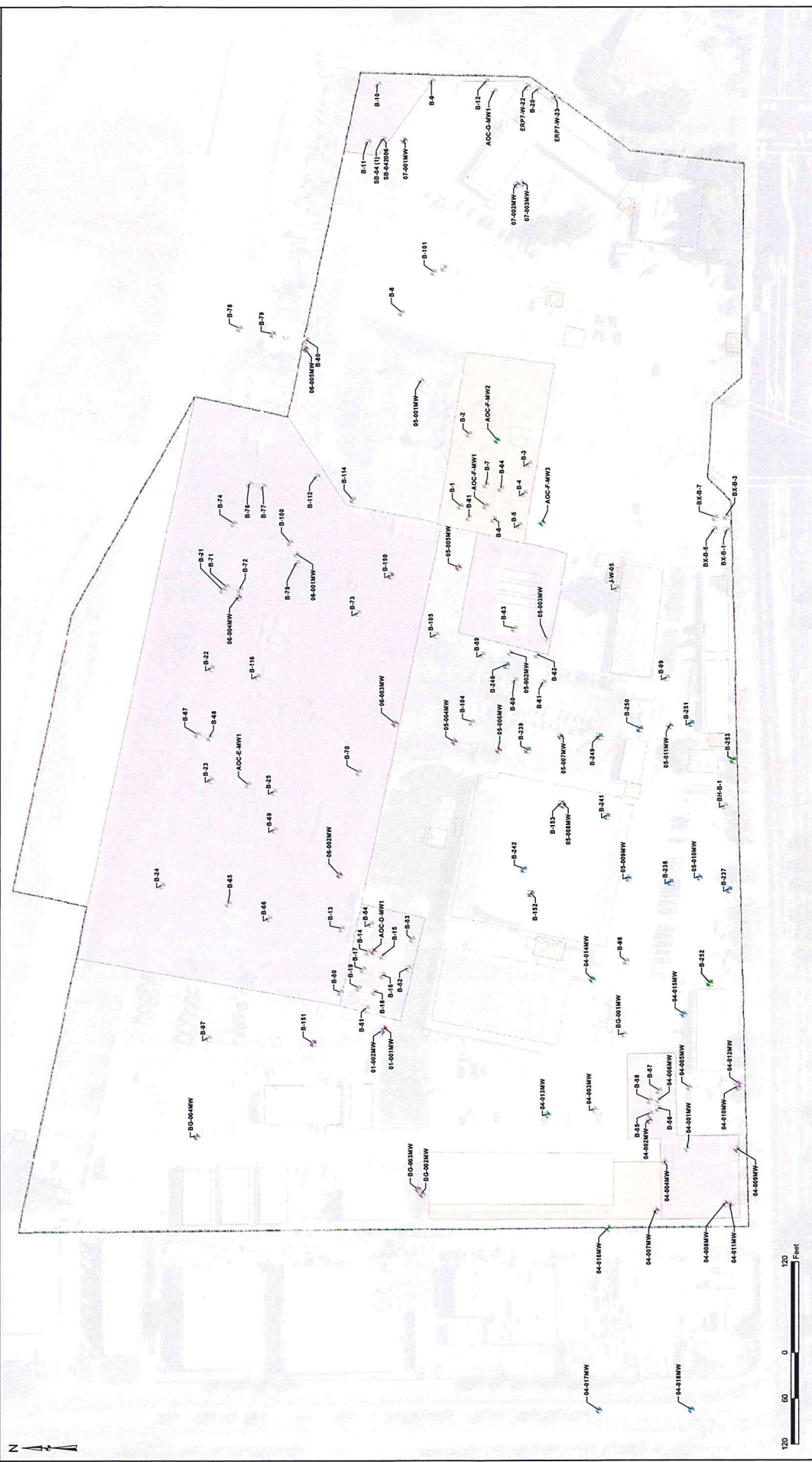


Figure 2-3
Groundwater Investigations during 2009-2010 Field Investigations
Hayward ANG Station
Hayward, California

Mailing List

Danilo M. Galang (danny.galang@hayward-ca.gov)
Environmental Specialist
City of Hayward – Fire Department
777 B Street
Hayward, CA 94541

Isomia Lamar (ilamar@waterboards.ca.gov)
Staff Services Analyst
State Water Resources Control Board
UST Cleanup Fund/Division of Financial Assistance
Closure Unit
1001 I Street, 17th Floor
Sacramento, CA 95814

Tanya Mock (tmock@waterboards.ca.gov)
Staff Services Manager I
State Water Resources Control Board
UST Cleanup Fund/Division of Financial Assistance
Accounts/Closure Unit
1001 I Street, 17th Floor
Sacramento, CA 95814



California Regional Water Quality Control Board

San Francisco Bay Region



Linda S. Adams
Secretary for
Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
<http://www.waterboards.ca.gov/sanfranciscobay>

Arnold Schwarzenegger
Governor

July 16, 2009
File No. 01-0634 (myl)

City of Hayward
Attn: Jodi Pascual (jodi.pascual@hayward-ca.gov)
777 B Street
Hayward, CA 94541

SUBJECT: Closure Letter for Leaking Underground Storage Tank Case, City of Hayward
Fire Station #6, 1401 W. Winton Avenue, Hayward, Alameda County

Dear Ms. Pascual:

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks 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 on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum releases at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our offices if you have any questions regarding this matter.

Sincerely,

Chuck Headlee
for

Bruce H. Wolfe
Executive Officer

Digitally signed by Chuck Headlee
DN: cn=Chuck Headlee, o=Regional Water
Quality Control Board, ou=Toxics Cleanup
division, email=cheadlee@waterboards.ca.
gov, c=US
Date: 2009.07.16 10:25:16 -0700'

Preserving, enhancing, and restoring the San Francisco Bay Area's waters for over 50 years

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: 05/28/2009

Agency Name: Hayward Fire Department	Address: 777 B Street
City/State/Zip: Hayward, CA 94541-5007	Phone: (510) 583-4925
Responsible Staff Person: Danilo M. Galang	Title: Environmental Specialist – AA III

II. SITE INFORMATION

Site Facility Name: City of Hayward Fire Station #6				
Site Facility Address: 1401 Winton Ave. West, Hayward, California 94545				
RB LUSTIS Case No. 01-0634	Local or LOP Case No.: 01-0634	Priority:		
URF Filing Date: 08/25/1999	SWEEPS No.: 01-003-009316			
Responsible Parties (RP)				
Name of RP: City of Hayward		Contact: Ms. Jodi Pascual		
Address: 777 B Street Hayward, California 94541		Title: Associate Civil Engineer		
		Telephone: (510) 583-4763		
		E-mail: Jodi.Pascual@hayward-ca.gov		
Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
1	1,000	Diesel	Removed	03/22/1999
2	1,000	Gasoline	Removed	03/22/1999
3	1,000	Gasoline	Removed	03/22/1999

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: accumulation of spills identified during UST Removal				
Site characterization complete?	Yes	Date Approved By Oversight Agency: 12/18/2008		
Monitoring wells installed?	No	Number: N/A	Proper screened interval? N/A	
Highest GW Depth Below Ground Surface: 18.0 ft		Lowest Depth: 21.5 ft	Flow Direction: West (Inferred)	
Most Sensitive Current Use: None Known - water for all uses at this site is supplied by Hayward Water System from San Francisco's Hetch Hetchy system				
Most Sensitive Potential Use and Probability of Use: None Anticipated				
Are drinking water wells affected?	No	Aquifer Name: East Bay Plain Subbasin		
Is surface water affected?	No	Nearest/Affected SW Name: Sulphur Creek (~1.4 mi WNW)		
Off-Site Beneficial Use Impacts (Addresses/Locations): None Known				
Report(s) on file?	Yes	Where is report(s) filed? Hayward Fire Department; and at http://geotracker.waterboards.ca.gov		

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL									
Material	Amount (Include Units)		Action (Treatment or Disposal w/Destination)				Date		
Tanks	3 x 1,000-gallon cap		Disposed of at Erickson, Inc., Richmond, CA Ecology Control Industries (ECI)				03/22/1999		
Piping	Lot		Disposed of at Erickson, Inc., Richmond, CA Ecology Control Industries (ECI)				03/22/1999		
Waste Product	160 gallons		Residual fuel from USTs , 40 gal diesel & 120 gal gasoline, disposed of at Erickson, Inc., Richmond, CA (ECI)				05/17/1999		
Soil	184 tons		Contaminated soil from excavation and trenches disposed of at Altamont Landfill, Livermore, CA				05/13/1999		
Groundwater	1,200 gallons		Rainwater from excavation disposed of at Seaport Environmental, Redwood City, CA				04/26/1999		
Barrels	4 units		Containers for waste fuel sent to ECI				05/17/1999		
MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP									
POLLUTANT	Soil (mg/kg)		Water (ug/L)		POLLUTANT	Soil (mg/kg)		Water (ug/L)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	560	<0.050	760	<25	Xylenes	72	<0.0040	96	<0.7
TPH (Diesel)	13,000	<5.0	360	<170	Ethylbenzene	10	<0.0015	16	<0.3
Benzene	0.022	<0.0015	19	0.43	Oil & Grease	NA	NA	NA	NA
Toluene	24	<0.0015	150	0.51	Lead	36	NA	0.011	NA
MTBE	34	<0.0010	270	<0.5	Other				
<p>Comments (Depth of Remediation, etc.): “Before” soil values refer to highest values from verification samples from the tank excavation walls and from under the tanks, piping and dispensers at the time the USTs were removed on 03/22/1999. Except for TPH (diesel) found under the dispensers at 13,000 mg/kg at 1.5 ft bgs and benzene from under the diesel tank at 0.22 mg/kg at 9 ft bgs, all the other high values listed above are from the sample collected from the NE wall of the tank excavation, closest to the gasoline tanks. Some 184 tons of pea gravel backfill and excavated contaminated soil was removed prior to the installation of two replacement tanks. “After” soil values refer to highest values found from 9 samples collected from 7 out of 8 soil borings advanced during the additional subsurface investigation performed in 11/11/2008. The soil borings were placed around the former UST and dispenser locations. Sample depths varied from 2 ft bgs to 11 ft bgs. No soil sample was collected from Boring #5 about 50 ft east and upgradient of the excavation.</p> <p>“Before” water values refer to results from one sample collected from a Baker tank that held 1,200 gallons of rainwater pumped out of the excavation (tank pit). No groundwater was encountered during the UST removal. The USTs were anchored to a concrete slab at the bottom of the tank pit. “After” water values refer to highest values found from grab groundwater samples collected from 6 out of 8 borings advanced during the additional subsurface investigation performed in 11/11/2008. The borings were placed around the former UST and dispenser locations. Sample depths varied from 18 ft bgs to 21 ft bgs.</p>									

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?	Yes
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?	Yes
Does corrective action protect public health for current land use?	Yes

Site Management Requirements: None		
If soil or groundwater that is disturbed or removed during future development activities is found to be contaminated, it must be reported to the Hayward Fire Department then properly managed and disposed of. Should property use intensify, a clearance for the proposed use shall be obtained from the Regional Board or from the Department of Toxic Substances Control which may require a separate site assessment.		
Monitoring Wells Decommissioned: N/A	Number Decommissioned: N/A	Number Retained: N/A
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

Title:	Date:
Request for Regulatory Closure Report - ERS Corporation	12/18/2008
Additional Site Characterization Report - ERS Corporation	12/15/2008
Underground Storage Tank Removal Report and Replacement - ACC Environmental Consultants	08/17/1999

VI. ADDITIONAL COMMENTS, DATA, ETC.

PLEASE INCLUDE/ATTACH THE FOLLOWING AS APPROPRIATE:

- 1) SITE MAP INDICATING TANK PIT LOCATION, MONITORING WELL LOCATION, GROUNDWATER GRADIENT, ETC.; AND,
- 2) SITE COMMENTS WORTHY OF NOTICE (E.G., AREA OF RESIDUAL POLLUTION LEFT IN PLACE, DEED NOTICES ETC.)

A SITE MAP AND TABLES OF ANALYTICAL RESULTS ARE ATTACHED TO THIS SITE CLOSURE SUMMARY.

The surface of the Site in the area of investigation is currently covered with concrete or asphalt pavement and underlain by base rock and associated fill materials to an approximate depth of 1.5 ft bgs. Encountered soils were consistent across the Site and comprised primarily of moderately plastic, stiff, uniform black and dark brown silty clays to a depth of 6.0 ft to 8.5 ft bgs. This soil was underlain by non-plastic, medium dense to loose, uniform yellowish-brown silty sands to approximately 23.0 ft bgs and moderately plastic, soft yellow-brown silty clays to the maximum explored depth of 24.0 ft bgs. Pea gravel used to backfill the excavation, was observed from approximately 1.5 to 9.0 ft bgs in soil boring B3. No odor or discoloration was noted in any of the soil borings completed in November 2008. Regional groundwater was encountered at depths ranging from 18.0 to 21.0 ft bgs. Generally, medium grain soils present at the Site would likely enhance natural attenuation at the Site.

On March 22, 1999, one 1000-gallon diesel single-wall UST, and two 1,000-gallon gasoline USTs, and two product dispensers were removed from the site. These were replaced with two 1,000-gallon double-wall UST and one product dispenser. No visible holes were noted during UST removal activities. Groundwater was not encountered during UST removal activities; however, the UST pit reportedly filled with rainwater. Approximately 1,200 gallons of rainwater was pumped out, stored in a Baker tank, and sampled.

Following UST removal, ACC collected fourteen verification soil samples: two soil samples from underneath each UST, one additional soil sample at a deeper depth underneath one UST, one soil sample from underneath each dispenser, and five soil samples from under the product piping, and UST excavation corners and sidewalls. Soil samples obtained from the UST pit were collected approximately 9.0 ft bgs. Soil sample analytical results reported 13,000 mg/kg TPHd under the dispenser, 230 mg/kg TPHg and 160 TPHd under one UST, and up to 560 mg/kg TPHg, 84 mg/kg TPHd, and 34 mg/kg MTBE from the UST corners and sidewalls.

On November 11, 2008, ERS Corporation conducted subsurface investigation for additional site characterization around the former UST location. All soil samples collected reported concentrations of TPHd, TPHg, BTEX, and MTBE below their respective laboratory limits. Grab groundwater samples collected reported only minor concentrations of benzene and toluene in one of the six grab groundwater samples. All other samples reported TPHg, TPHg, BTEX, and MTBE concentrations below laboratory method detection limits. This investigation suggests that no source is present. Highly contaminated soil (13,000 mg/kg of TPH-d) was effectively removed during over excavation work after the USTs were removed, and before the replacement UTSs were installed. Reported concentrations in soil and groundwater are well below residential ESLs and do not pose a risk to human health and to the environment.

BASED ON A REVIEW OF THE DATA PROVIDED TO THE HAYWARD FIRE DEPARTMENT, THE CITY OF HAYWARD RECOMMENDS THAT THE REGIONAL BOARD ISSUE A "NO FURTHER ACTION" LETTER FOR THIS SITE CONTAMINATION CASE, FOR THE FOLLOWING REASONS:

#1 - The source has been removed.

Analytical data from soil samples collected after remedial soil excavation and pit dewatering activities indicated TPH-impacted soil was successfully removed, although analytical data might suggest that residual sources existed beneath the former product dispensers. Soil and grab groundwater samples collected during the November 2008 investigation confirmed that minor to non-detectable impacts currently exist in soil and groundwater at the Site. Soil and grab groundwater sample analytical results further suggest that natural attenuation is occurring and that the potential for unknown TPH sources in groundwater is low.

#2 - The site has been adequately characterized.

ERS believes that the Site has been adequately characterized and can confidently evaluate the migration potential and concentration of residual petroleum hydrocarbons in subsurface soil and groundwater. With the exception of soil samples FS6-Disp1, FS6-Disp2, and FS6-NE Wall collected in 1999 following UST removal, the other eleven soil samples analyzed reported minor concentrations of TPHd, TPHg, BTEX, and MTBE. Recently obtained representative samples reported minor to non-detectable concentrations of TPHd, TPHg, BTEX, and MTBE. No additional site characterization is warranted.

#3 - The dissolved hydrocarbon plume is not migrating.

Based on the November 2008 subsurface investigation, groundwater at 18 ft does not appear to have been impacted by soil contamination that was highest at 13,000 mg/kg TPH-d at 1.5 ft bgs. Whatever minor impact groundwater sustained before the USTs and the contaminated soil were removed in 1999, it has likely naturally attenuated to concentrations near or below laboratory method detection limits in 2008. Any minor residual petroleum hydrocarbon concentrations in groundwater can be expected to continue to decrease due to the natural attenuation processes occurring in soil and groundwater at the Site.

#4 - No water wells or other sensitive receptors are likely to be impacted.

No sensitive receptor surveys were performed for this Site. However, based on the lack of elevated concentrations of petroleum hydrocarbons in analyzed grab groundwater samples, no significant groundwater impacts are suspected downgradient of the former USTs, and no offsite migration is suspected. The area downgradient of the Site is commercial and high quality drinking water is supplied to the area by municipal water providers.

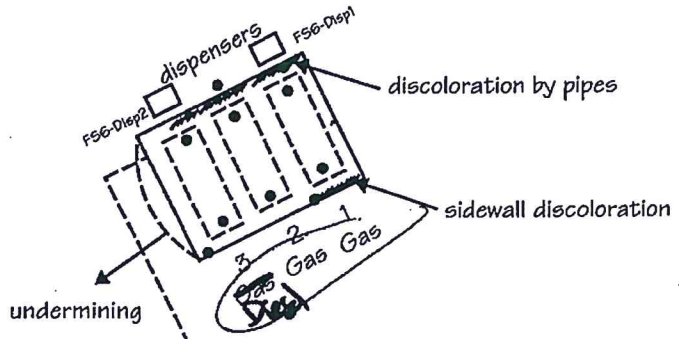
#5 - The site presents no significant risk to human health.

Soil and groundwater sampling has demonstrated that no significant petroleum hydrocarbon concentrations exist in soil or groundwater. Analytical results from the November 2008 subsurface investigation reported minor to non-detectable concentrations of TPHd, TPHg, BTEX and MTBE.

#6 - The site presents no significant risk to the environment.

The primary and secondary sources have been removed from the Site. Groundwater flow direction is estimated to be to the west-northwest (towards San Francisco Bay) and the nearest surface water body, Sulphur Creek, is approximately 1.4 miles toward the west-northwest of the Site. San Francisco Bay is approximately 2.0 miles west of the Site. The present low levels of residual contamination found suggest that the Site does not present a significant risk to the environment.

This document and the related CASE CLOSURE LETTER shall be retained by the lead agency as part of the official site file.

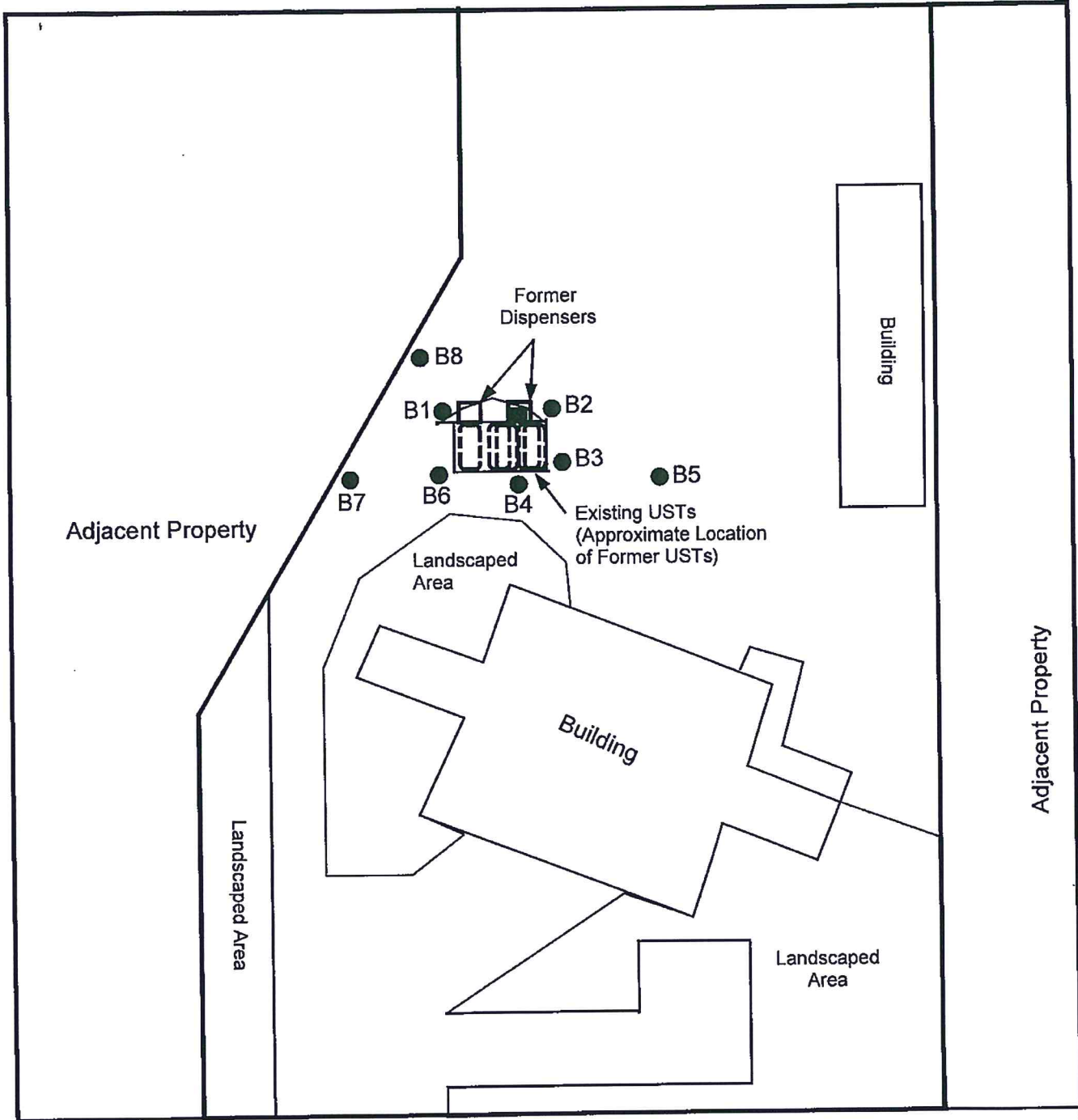


Fire Station Number 6

LEGEND

- Soil Sample Locations

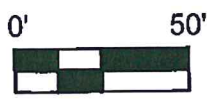
Title: Site Plan - Figure 2.0 Fire Station #6, 1401 W. Winton Ave. Hayward, California	
Project No: 6073-7.0	Scale: 1/8" = 1'
Date: 7/1/99	Figure No: 2.0
Drawn By: KMB	
ACC Environmental Consultants 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 FAX: (510) 638-8404	



LEGEND

- B1 ● ERS Boring Locations
- Dispenser Location
- ⊔ Former USTs
- ▭ Existing USTs

West Winton Avenue



Site Plan
 1401 West Winton Avenue
 Hayward, California
 Source: ACC UST Removal Report, 8/17/99

Figure 2
 ers

TABLE 1 - 1999 VERIFICATION SOIL SAMPLE ANALYTICAL RESULTS

MARCH 22, 1999

Sample ID	Depth (ft bgs)	TPHd (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)
FS6-Disp1	1.5	13,000	3.8	0.0088	0.056	0.033	0.27	0.16
FS6-Disp2	1.5	13,000	<1.0	<0.005	<0.005	<0.005	0.34	<0.005
FS6-Tank-1N	9.0	<50	<1.0	<0.005	<0.005	<0.005	<0.005	0.072
FS6-Tank-1S	9.0	<50	<1.0	<0.005	<0.005	<0.005	<0.005	0.0098
FS6-Tank-2N	9.0	<50	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
FS6-Tank-2S	9.0	<50	<1.0	<0.005	<0.005	<0.005	0.0064	0.0074
FS6-Tank-3N	9.0	<50	<1.0	<0.005	<0.005	<0.005	0.016	<0.005
FS6-Tank-3S	9.0	160	33	0.022	0.026	<0.005	0.056	0.16
FS6-Tank-3S#2	NA	82	230	<0.005	<0.005	<0.005	<0.005	0.74
FS6-SW-CRNR	NA	<50	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
FS6-SE Wall	NA	<50	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
FS6-NE-CRNR	NA	<50	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
FS6-NE Wall	NA	84	560	<0.005	24	10	72	34
FS6-Ctr Pipes	NA	<50	2.3	0.022	0.33	0.061	0.34	0.53

Notes: mg/kg = milligrams per kilogram (approximately equivalent to ppm)
 < = Concentration is below the reporting limit of the lab
 NA = Information not available

TABLE 2 - 1999 EXCAVATION WATER SAMPLE ANALYTICAL RESULTS

BAKER TANK : 3/25/1999

Sample ID	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE
FS6-BAKER	360	760	19	150	16	96	270

Notes: µg/L = micrograms per Liter (approximately equivalent to ppb)
 < = Concentration is below the reporting limit of the lab
 NA = Not analyzed

TABLE 3 – 2008 SOIL SAMPLE ANALYTICAL RESULTS
NOVEMBER 2008

Sample ID	Depth (ft bgs)	TPH as diesel (mg/kg)	TPH as gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)
B1-2.0	2.0	<5.0	<0.049	<0.0015	<0.0015	<0.0015	<0.0039	<0.00098
B1-5.0	5.0	<5.0	<0.050	<0.0015	<0.0015	<0.0015	<0.0040	<0.00098
B2-2.5	2.5	<5.0	<0.050	<0.0015	<0.0015	<0.0015	<0.0040	<0.00099
B2-5.5	5.5	<5.0	<0.049	<0.0015	<0.0015	<0.0015	<0.0039	<0.00097
B3-11.0	11.0	<5.0	<0.050	<0.0015	<0.0015	<0.0015	<0.0040	<0.00099
B4-9.5	9.5	<5.0	<0.049	<0.0015	<0.0015	<0.0015	<0.0039	<0.00098
B6-9.5 ^a	9.5	<5.0	<0.049	<0.0015	<0.0015	<0.0015	<0.0039	<0.00098
B7-9.5 ^b	9.5	<5.0	<0.049	<0.0015	<0.0015	<0.0015	<0.0039	<0.00099
B8-9.5	9.5	<5.0	<0.050	<0.0015	<0.0015	<0.0015	<0.0040	<0.0010
Residential ESL		100	100	0.12	9.3	2.3	11	8.4
Commercial ESL		180	180	0.27	9.3	4.7	11	8.4

Note: milligrams per kilogram (mg/kg) approximately equal to parts per million (ppm)
 ESL = Environmental Screening Level (San Francisco Bay RWQCB, Table B, 2008)
 < = Reported below respective laboratory method detection limit (see reports)
 a = Lab reported sample contains an estimated 34mg/kg Motor Oil
 b = Lab reported sample contains an estimated 23 mg/kg Motor Oil

TABLE 4 – GRAB GROUNDWATER SAMPLE ANALYTICAL RESULTS
NOVEMBER 2008

Sample ID	Depth (ft bgs)	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
B2-W-18.0 ^{a,b}	18.0	<71	<25	<0.30	<0.50	<0.30	<0.70	<0.50
B4-W-21.0 ^{a,b}	21.0	<77	<25	<0.30	<0.50	<0.30	<0.70	<0.50
B5-W-20.0 ^{a,b}	20.0	<63	<25	<0.30	<0.50	<0.30	<0.70	<0.50
B6-W-18.0 ^{a,b}	18.0	<170	<25	<0.30	<0.50	<0.30	<0.70	<0.50
B7-W-18.0	18.0	<54	<25	<0.30	<0.50	<0.30	<0.70	<0.50
B8-W-18.0 ^{a,b}	18.0	<67	<25	0.43	0.51	<0.30	<0.70	<0.50
Residential/ Commercial ESL		210	210	46	130	43	100	1,800

Notes: µg/L = micrograms per Liter (approximately equivalent to ppb)
 < = Concentration is below the laboratory method detection limit (see reports)
 ESL = Environmental Screening Level (San Francisco RWQCB, Table, B, 2008)
 a = Sample not preserved to a pH <2.0
 b = Reporting limits raised due to high level of turbidity in water samples



City of Hayward Fire Department
A Certified Unified Program Agency
 777 B Street, Hayward, California 94541
 Telephone: (510) 583-4910

PERMIT TO OPERATE UNDERGROUND STORAGE TANK(S)

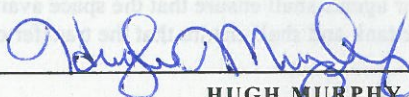
Issued upon review and verification by inspection of information submitted in completed Unified Program Consolidated Forms, formerly SWRCB Form A and Form B, duly signed as specified in CCR Title 23, Div. 3, Ch. 16, Art. 10, Sec. 2711(a)(13).

Facility Name: COH - FIRE STATION #6 **Permit Number:** 50201
Facility Address: 1401 WINTON AVE WEST **Date Permit Issued:** November 8, 2013
Tank Owner: CITY OF HAYWARD **Date Permit Expires:** November 7, 2014
Tank Operator: CITY OF HAYWARD **UST Facility ID No.:** 01-003-009316
Designated Operator (DO): TEC ACCUTITE - R.J. LAWSON **DO Contact Telephone No.:** 510-363-4446

	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5
CAPACITY (gallons)	1,000	1,000			
MATERIAL CONTAINED	REG U/L	DIESEL			
STATE TANK ID NUMBER (SWRCB)	04	05			
TANK MONITORING METHOD	AV CMS FS PSD SCT-3Y	AV CMS FS PSD SCT-3Y			
PIPING MONITORING METHOD	ALLD3.0 SCT-3Y PSD	ALLD3.0 SCT-3Y PSD			

- | | |
|--|---|
| ALLD3.0 Automatic line leak detector at 3.0 gph | LT-0.1Y1 Annual (every year) line/piping test at 0.1 gph |
| ATG-M.2 Automatic tank gauge at 0.2 gph, once a month | LT-0.1Y2 Biennial (every 2 years) line/piping test at 0.1 gph |
| AV Monitoring system has audible and visual alarm | LT-0.1Y3 Triennial (every 3 years) line/piping test at 0.1 gph |
| CITLD.2 Continuous in-tank leak detection at 0.2 gph | LT-0.2M Monthly line/piping test at 0.2 gph |
| CMS Continuous monitoring system | MAN Manual tank gauging for small tanks |
| DSO Dispenser shut-off | PSD Positive shut down at the pump |
| FS Monitoring system has fail-safe feature | SCT-3Y Secondary containment testing every three (3) years |
| PSD Monitoring system has positive pump shut-down | SIR Statistical inventory reconciliation |
| VPH Monitoring system uses vacuum, pressure or liquid level | SSS Safe suction system, no monitoring required |
| ELD Enhanced leak detection testing as required by SWRCB | TT2 Tank tightness test every two (2) years |
| GWM Groundwater monitoring | VIS-D Daily visual monitoring for air (for suction system) |
| VZM Vadose zone monitoring | VIS-M Monthly visual monitoring for air (for suction system) |

This permit is issued to the owner or the operator who must comply with all applicable underground storage tank (UST) requirements contained in the California Health & Safety Code, Div. 20, Ch. 6.7 and Ch. 6.75; the California Code of Regulations, Title 23, Div. 3, Ch. 16 and Ch. 18; the Hayward Fire Code; and the Hazardous Materials Storage Ordinance, including the reporting and recording requirements for unauthorized releases specified in Art. 5 of Title 23, CCR, Div. 3, Ch. 16. The owner or the operator must also comply with an approved written release detection and monitoring program and with an emergency response plan. A copy of this permit and all conditions and attachments thereto, including but not limited to the UPCF Forms equivalent to the former SWRCB Form A and Form B, the financial responsibility certification, the written release detection and monitoring program with the facility plot plan, and the emergency response plan, shall be retained at a readily available location. Details of permit conditions as adopted with revisions from provisions of CCR Title 23, Div. 3, Ch. 16, Art. 10, Sec. 2712 by the Hayward Fire Department are printed on the back of this permit.


HUGH MURPHY
 Hazardous Materials Program Coordinator

A.6 Site Photographs





Southwest corner of the Study Site looking east. West Winton Avenue is seen on the right. A portion of the Fire Station #6 is seen in the left side background.



The northwest corner of Fire Station #6 looking south. The street entrance to the Training Facility is on the right. The fuel dispensers and vent pipes for the underground storage tanks are seen in the center. The southeast corner of the Hayward Executive Airport property, adjacent property to the west, is seen in the far right.





This is the northwest corner of the Study Site looking south. The Butler Building is seen on the right. The Crash Tent and Fire Station #6 are seen in the far left background.



Northern perimeter of the Western Portion of the Study Site looking east. Hayward Executive Airport, adjacent parcel to the north and west, access road and runway are seen on the right. Cars and an airplane used in rescue training are seen in the center.





Northeast corner of the Study Site looking west. The open field of the Eastern Portion is seen in the foreground. Some structures on Western Portion of the Study Site are seen in the far background.

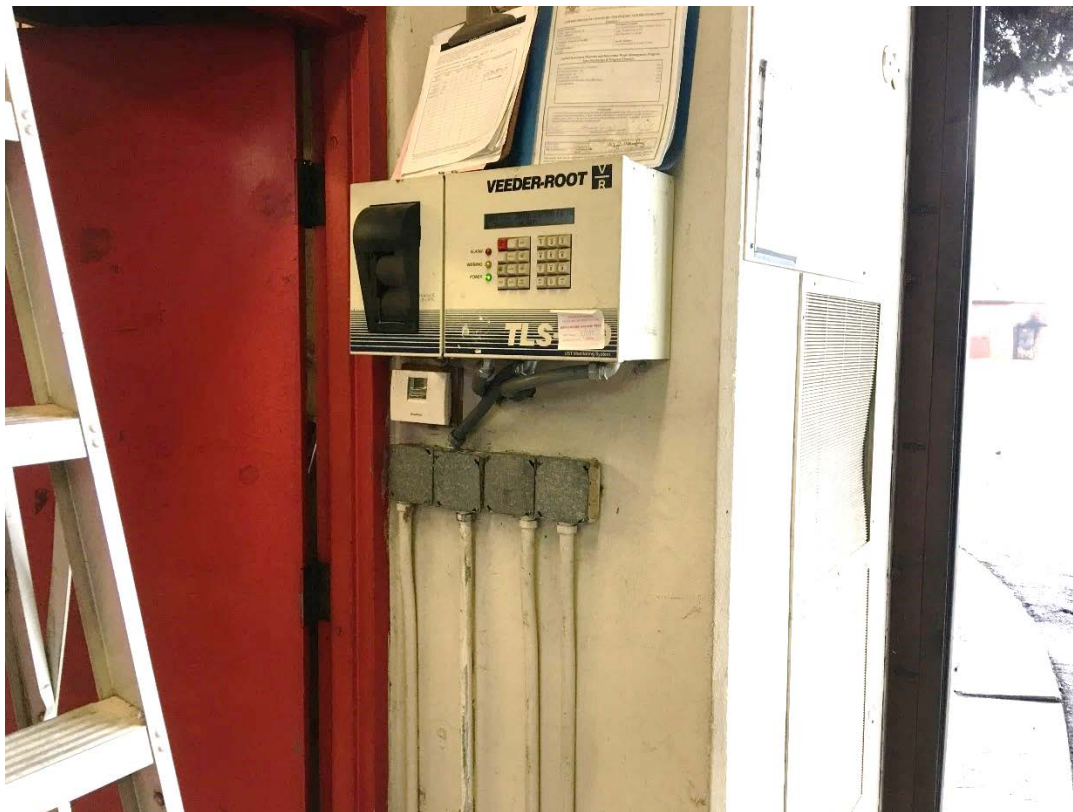


Southeast corner of the Study Site looking west. The open, undeveloped field of the Eastern Portion is seen in the foreground. The Pacific Roller Die, adjacent parcel to the south, is seen in the background. West Winton Avenue is seen on the left.





The currently used backup generator with the fuel storage in a belly tank. This is located on the eastern portion of the north side of the Fire Station #6 building.



The UST leak detection monitor for both the diesel and gasoline tanks. This is located in the Fire Station #6 building, north wall.



A.7 Qualifications of Environmental Professionals



BILL C. WIGGINS, P.E., CIVIL ENGINEER, PRESIDENT

Registered California Civil Engineer CE46344

Licenses

California Professional Engineer – Civil 46344

California General Engineering Contractor A with Hazardous Materials Certification – 697833

Project Experience Summary

Mr. Wiggins is a licensed professional engineer in the State of California and has been an environmental consultant for over 29 years. Bill founded Trans Tech Consultants with a partner in 1987. He has been in responsible charge of over a 1,000 environmental projects, including investigation and remediation projects involving fuel releases and volatile organic compounds in soil and ground water, Phase I and Phase II site assessments, storm water pollution prevention plans, hazardous material management plans, and extensive experience with the California Underground Storage Tank (UST) Cleanup Fund.

**WILLIAM H. H. COSET
ASSOCIATE GEOLOGIST**

Education/Training

Sonoma State University, BS Geology, 1978

OSHA 29 CFR 1910.120 Hazardous Waste Training

40 hour HAZWOPER Training

8 hour Refresher Courses

Project Experience Summary

Mr. Coset has over 25 years of experience in environmental and engineering geology including managing RCRA-CERCLA soil and groundwater investigations and performing Phase I and Phase II Environmental Site Assessments (ESA) to the ASTM standards. Mr. Coset has performed over 150 Phase I ESAs. Mr. Coset's primary responsibilities in RCRA-CERCLA soil and groundwater investigations are: work plan preparation; coordination of regulatory review processes for soil and groundwater investigation work plans; groundwater monitoring well design; supervising geologic borings and monitoring well construction; hydrogeologic interpretations; designing and implementing soil and groundwater remediation plans; long term groundwater monitoring and reporting program design and implementation; and data reduction and report preparation.

Mr. Coset has supervised the design and construction of soil and groundwater remediation systems, including; soil vapor extraction, vapor barrier and venting systems, and dual phase extraction systems. Mr. Coset also has experience in soil remediation by excavation, UST removal, and non-hazardous and hazardous waste characterization and disposal.

ERAS

Environmental, Inc.

1533 B Street

Hayward, CA 94541

(510) 247-9885 Facsimile: (510) 886-5399

info@eras.biz

SOIL MANAGEMENT PLAN

for

**1401 West Winton Avenue
Hayward, California**

ERAS PROJECT NUMBER: 17221B

Prepared for

Mr. Dave Hung
Senior Civil Engineer
P.O. Box 2505
South San Francisco, California 94080

August 7, 2018

ERAS

Environmental, Inc.

1533 B Street

Hayward, CA 94541

(510) 247-9885 Facsimile: (510) 886-5399

info@eras.biz

August 7, 2018

Mr. Dave Hung
Senior Civil Engineer
City of Hayward
Department of Public Works
777 B Street
Hayward CA 94541

**Subject: Soil Management Plan
1401 West Winton Avenue
Hayward, California
ERAS Project Number 17221B**

Dear Mr. Hung:

ERAS Environmental, Inc. (ERAS) is pleased to present this Soil Management Plan (SMP) for the management of background arsenic during future construction projects at 1401 West Winton Avenue in Hayward, California (the "Property").

Concentrations of arsenic have been found on the Property above the human health limit (direct contact ESL) and therefore workers will be required to be addressed when soil is disturbed for construction purposes and in the final plan for exposed soil surfaces at the proposed development.

Sincerely,
ERAS Environmental, Inc.



David Siegel
Senior Program Manager

TABLE OF CONTENTS

	Page
1.0 INTRODUCTION.....	1
2.0 BACKGROUND	1
2.1 PROJECT SUMMARY	1
2.2 SUMMARY OF SAMPLING ACTIVITIES	1
3.0 LOCATION AND EXTENT OF CONTAMINATION	2
4.0 NEW CONSTRUCTION.....	3
4.1 CONSTRUCTION DESIGN SUBMITTALS.....	3
5.0 FIELD PRACTICES	3
5.1 WORKER PROTECTION	3
5.2 NEARBY AREA PROTECTION	3
5.3 SOIL DISPOSAL.....	3
6.0 LIMITATIONS	4

Attachment – Figure 1 - Site Location Map
Figure 2 – Site Plan

1.0 Introduction

This soil management plan (SMP) presents information and instructions to be used during future construction and other subsurface activities at the Property. The purpose of the SMP is to protect Property occupants, workers, nearby residents, and the surrounding area from direct exposure to contaminants.

Procedures to follow for new construction, soil excavation and waste disposal are included in this plan. The primary health concern at the Property is the risk to human health and safety from contact with soil if it is disturbed.

The location of the Property is shown on **Figure 1** and the layout of the Property is shown on the attached figures. **Figures 2** also shows the location of borings that have been drilled on the Property.

The Property consists of an active fire station operated by the City of Hayward which is being redeveloped for use as a training facility.

2.0 Background

2.1 Project Summary

Eight commercial buildings and a parking area are proposed to be constructed on the Property. Most of the Property is currently undeveloped land. Information regarding the proposed development is contained in a report by Rockridge Geotechnical Entitled Final Geotechnical Investigation, Hayward Fire Station #6 & Fire Training Center, 1401 West Winton Avenue, Hayward, California, dated July 14, 2017.

Based on the geotechnical report, the eight buildings have a total estimated footprint area of approximately 71,000 square feet and the parking area has an area of approximately 35,000 square feet. Waste soil will be generated from excavations for the proposed building slabs and footings, a basement for one of the buildings, a pump test pit, a fuel underground storage tank (UST) excavation, and grading of the parking area. The soil to be disposed from this work consists of an approximate total volume of 7,900 cubic yards (11,850 tons).

A review of historical aerial photographs indicates most of the Property has been undeveloped since 1946. Prior to 1946 until prior to 1958, the southwestern area of the Property contained orchards. The only current development on the Property are several buildings along the western side of the Property associated with a current Hayward Fire Station that was constructed between 1968 and 1980.

The laboratory analyses selected, and the number of samples analyzed were specified by Recology, Inc. Vacaville landfill facility following their waste acceptance criteria. Note that the analytical suite should be acceptable to other local suitable Class 3 or Class 2 landfills, but each disposal facility should be consulted before arrangements for delivery of waste are made.

2.2 Summary of Sampling Activities

ERAS drilled a total of 79 soil borings B-1 through B-79 on March 7th, 8th and 9th, and May 30th, 2018 for the collection of soil samples. The purpose of this investigation was to characterize the nature

and extent of potential chemicals of concern (COCs) for the purposes of waste disposal for the planned construction project.

The soil samples were analyzed for total petroleum hydrocarbons quantified as gasoline range organics (TPH-gro¹), volatile organic compounds (VOCs) by EPA Method 8260, total petroleum hydrocarbons quantified as diesel range organics (TPH-dro) and oil range organics (TPH-oro) by EPA Method 8015, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and CAM 17 metals by EPA Method 6020 based on waste acceptance criteria from the Recology Vacaville landfill. The analyses indicated that all soil meets disposal criteria as non-hazardous waste.

Note that the analytical suite should be acceptable to other local suitable Class 3 or Class 2 landfills, but each disposal facility should be consulted before arrangements for delivery of waste are made.

The concentrations of arsenic detected in the samples collected from the Property were within the background range for Alameda County and are therefore not considered anthropogenic. However, the concentrations of arsenic are above the direct exposure human health ESL of 0.31 mg/kg and therefore engineering controls to protect workers during construction activities will be required.

The National Institute for Occupational Safety and Health (NIOSH) is the Federal agency responsible for conducting research and making recommendations for the prevention of work related disease and injury, including exposure to hazardous chemicals in air (NIOSH 2007). NIOSH develops and periodically revises Recommended Exposure Limits (RELs) for hazardous substances in the workplace. The RELs are used to promulgate Permissible Exposure Limits (PELs) under the Occupational Safety and Health Act (OSHA).

OSHA PELs are derived for an occupational setting, where the: 1. Chemical in question is used in the industrial process; 2. Workers and others who might be exposed to the chemical have knowledge of the chemicals presence; 3. Workers receive appropriate health and safety training; and 4. Workers may be provided with personal protective equipment to minimize exposures. Soil and Groundwater Management Plans should consider these criteria.

3.0 Location and Extent of Contamination

Background arsenic concentrations in Bay Area soils often exceed health-based direct-contact goals for arsenic (0.31mg/Kg). The United States Geological Survey (USGS) has prepared an online summary of element data by County for the Conterminous US. The data presented for Alameda County (USGS, 2016) indicates a mean of 8.396 mg/kg, a standard deviation of 2.253 mg/kg, and a range of 4.184 mg/kg to 17.411 mg/kg.

Concentrations of arsenic were detected in the samples collected from the Property at 4.1 to 7.8

¹ TPH-gro, TPH-dro, and TPH-oro are methods that compare analytical results to standards for gasoline, diesel and motor oil, respectively. Therefore, analytical results are estimates of quantities based on what would be expected for the range of hydrocarbon results for the standard. Gasoline range organics (gro) are those hydrocarbon compounds that are in the range of C6 to C10, diesel range organics (dro) are those hydrocarbon compounds that are in the range of C10 to C23, and oil range organics (oro) are those hydrocarbon compounds that are in the range of C18 to C36. There can be overlap in reporting methods as well as identification of compounds that fall within the standard that may not necessarily be derived from gasoline, diesel, or oil.

mg/Kg. All the concentrations of arsenic are above their respective ESL for direct contact and therefore engineering controls to protect workers during construction activities are required.

4.0 New Construction

New construction that will disturb underlying soil must include plans for proper protection of workers, temporary storage of waste soil, proper disposal and repair of surfaces disturbed. The plans should be reviewed by the Alameda County Environmental Health Department and or the City of Hayward.

4.1 Construction Design Submittals

The construction plans should contain a narrative of the worker protection measures, waste storage and disposal, and be signed and stamped by a Professional Engineer licensed in California.

5.0 Field Practices

The field practices detailed below are designed to protect workers, nearby residents, and the surrounding nearby area. In addition, work practices to follow for waste disposal are described.

All excavation work that affects the Property will be overseen in the field by a professional environmental consultant trained as a supervisor in hazardous waste operations. Measures will be implemented to keep soil wet to control dust at all times.

5.1 Worker Protection

The soil underlying the area of the Property contains concentrations of arsenic above the direct contact ESL. Should excavation be performed workers suitably trained in hazardous waste operations (HAZWOPER) shall be contracted to perform the excavation. Soil excavated from the area shall be covered with plastic at the completion of the workday.

5.2 Nearby Area Protection

During excavation activities, the area shall be secured so that residents and passersby cannot easily access the excavation area. Excavated soil shall be covered at all times to prevent dust from blowing into the public right-of way. Water shall be sprayed on the exposed dirt area to prevent dust.

Equipment used for excavation activities will be decontaminated on-site prior to leaving the Property. The decontamination will consist of washing down the equipment and vehicles with water. The wastewater will be contained and properly disposed. Vehicles leaving the Property will be cleaned to avoid tracking mud and dirt onto the adjacent roadways. Mud and dirt that is spilled onto the sidewalk or roadway will be promptly cleaned.

5.3 Soil Disposal

Excavated soil will be covered after each workday. Soil samples have been collected for waste profiling. The results of this sampling shall be provided to the waste disposal facility. After the soil is accepted by an appropriate disposal facility, the soil will be loaded and transported by a suitable carrier to the landfill. The soil will be covered with polyethylene for transport. The soil will be moistened during loading to minimize release of dust.

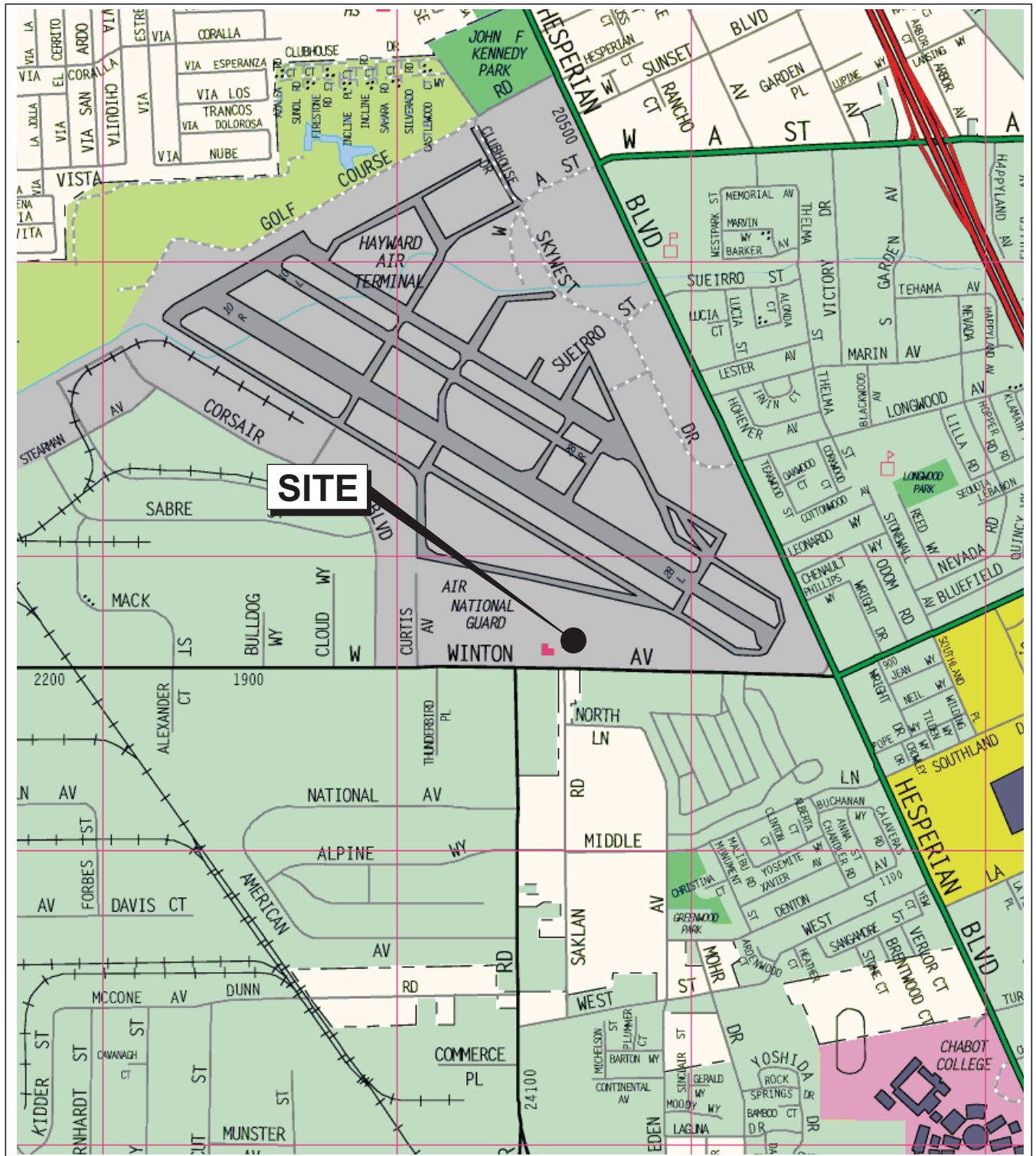
Equipment used for waste hauling will be decontaminated on site prior to leaving the Property. The

decontamination will consist of washing down the equipment and vehicles with water. The wastewater will be contained and properly disposed.

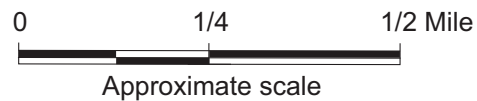
6.0 Limitations

This report has been prepared by ERAS according to the State and local agency suggested guidance documents for these investigations and in general accordance with the accepted standard of practice that exists in Northern California at the time the investigation was performed. The interpretations, conclusions and recommendations made herein are based upon the data and analysis for the soil and water samples collected on-site. ERAS is not responsible for errors in laboratory analysis and reporting, or for information withheld during the course of the study.

The purpose of this study is to screen for the presence of contamination that may affect the use or value of the Property. As such, the evaluation of the geologic and environmental conditions on this site is made with very limited data. Judgments leading to conclusions are generally made with an incomplete knowledge of the conditions present. Additional conditions and materials at the site could exist that were not encountered during this investigation. No warranty or guarantee is expressed or implied therein.



Base map: The Thomas Guide
Alameda County
2002



HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California

PROPERTY LOCATION MAP

Date 2018

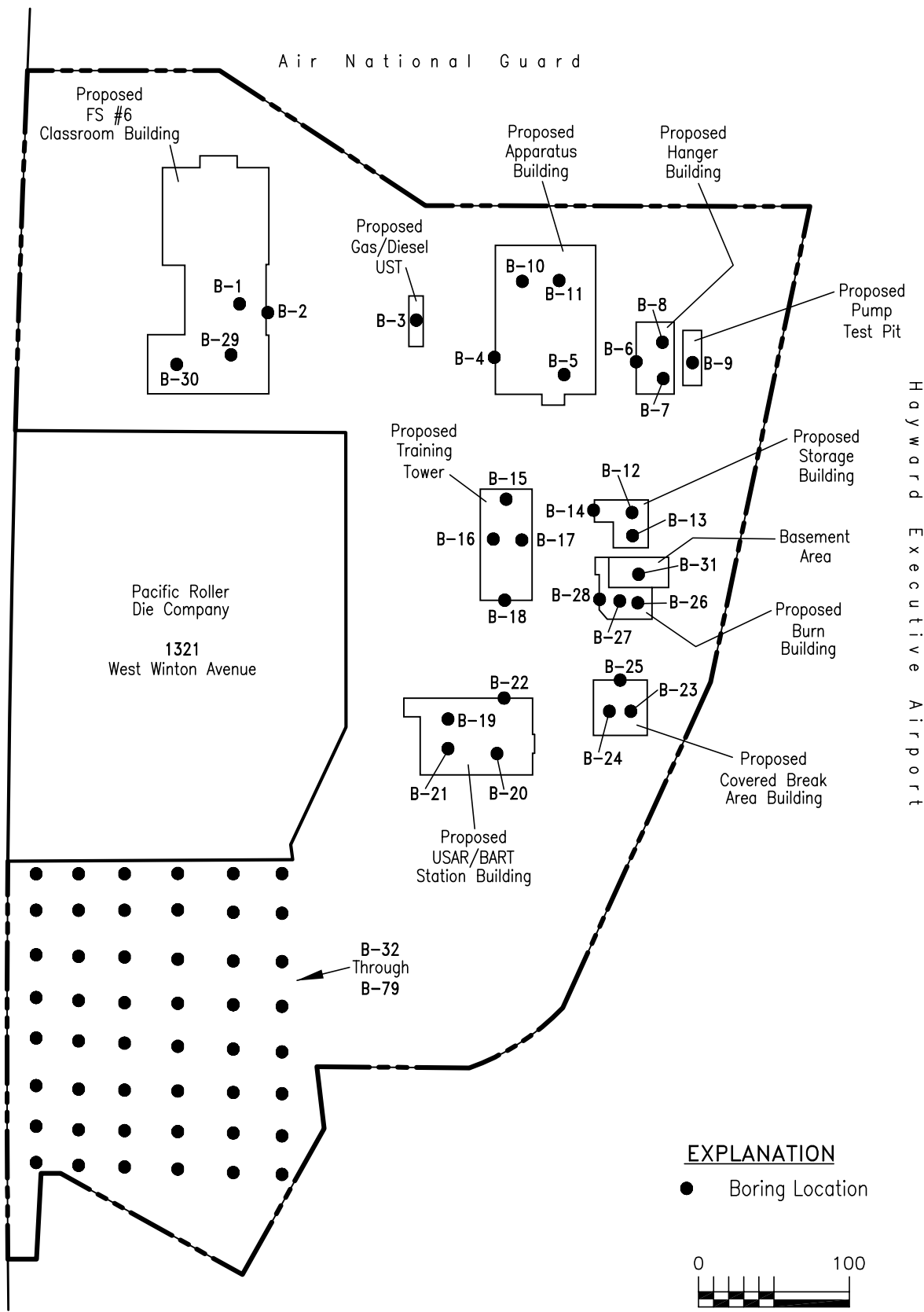
Project No. 17221

Figure 1

WEST WINTON AVENUE

Air National Guard

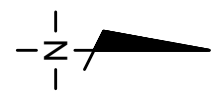
HAYWARD EXECUTIVE AIRPORT



Pacific Roller Die Company
1321 West Winton Avenue

EXPLANATION

● Boring Location



BORING LOCATION MAP **FIGURE 2**

Project No. 17221
1401 West Winton Avenue
Hayward, California

June, 2018

ERAS
Environmental

ERAS

Environmental, Inc.

1533 B Street

Hayward, CA 94541

Phone (510) 247-9885 Facsimile: (510) 886-5399

info@eras.biz

REVISED SOIL SAMPLING INVESTIGATION

at

**1401 West Winton Avenue
Hayward, California**

ERAS PROJECT NUMBER: 17221

Prepared for

Mr. Dave Hung
Senior Civil Engineer
P.O. Box 2505
South San Francisco, California 94080

June 26, 2018

TABLE OF CONTENTS

TABLE OF CONTENTS	i
CERTIFICATION	ii
1.0 INTRODUCTION	1
1.1 BACKGROUND.....	1
2.0 REGIONAL GEOLOGY/HYDROLOGY	2
3.0 FIELD WORK PERFORMED	3
3.1 SCOPE OF INVESTIGATION	3
3.2 BORING LOCATION AND SAMPLING.....	3
3.3 ANALYTICAL RESULTS.....	4
4.0 CONCLUSIONS	6
5.0 REFERENCES	7

FIGURES

- 1 Property Location Map
- 2 Boring Location Map

APPENDICES

- A Drilling Permit
- B Standard Operating Procedures
- C Analytical Results
- D Average Concentrations of Elements in Alameda County, California

CERTIFICATION

This **Soil Sampling Investigation** at 1401 West Winton Avenue in Hayward, California, has been prepared by ERAS Environmental, Inc. (ERAS) under the supervision of the Registered Professional Geologist whose signature appears hereon.

This report was prepared in general accordance with the accepted standard of practice that exists in Northern California at the time the investigation was performed. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies.

Our firm has prepared this report for the Client's exclusive use for this particular project and in accordance with generally accepted professional practices within the area at the time of our investigation. No other representations expressed or implied and no warranty or guarantee is included or intended.

This report may be used only by the client and only for the purposes stated within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify ERAS of such intended use. Based on the intended use of report, ERAS may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release ERAS from any liability resulting from the use of this report by any unauthorized party.

Sincerely,
ERAS Environmental, Inc.



Curtis Payton, PG 5608
Senior Geologist



Andrew Savage
Project Geologist
Project Geologist

June 26, 2018

1.0 INTRODUCTION

The following report presents the results of the collection and laboratory analysis of soil samples at 1401 West Winton Avenue in Hayward, California (the "Property"). The purpose of this investigation was to characterize the nature and extent of potential chemicals of concern (COCs) for the purposes of waste disposal for a planned construction project on the Property.

The location of the Property is shown on **Figure 1**. The layout of the Property is shown on **Figure 2**.

1.1 BACKGROUND

Eight commercial buildings and a parking area are proposed to be constructed on the Property. Most of the Property is currently undeveloped land. Information regarding the proposed development is contained in a report by Rockridge Geotechnical Entitled Final Geotechnical Investigation, Hayward Fire Station #6 & Fire Training Center, 1401 West Winton Avenue, Hayward, California, dated July 14, 2017.

Based on the geotechnical report, the eight buildings have a total estimated footprint area of approximately 71,000 square feet and the parking area has an area of approximately 35,000 square feet. Waste soil will be generated from excavations for the building slabs and footings, a basement for one of the buildings, a pump test pit, a fuel underground storage tank (UST), and parking area for the proposed City of Hayward Fire Academy. The soil to be disposed from this work consists of an approximate total volume of 7,900 cubic yards (11,850 tons).

A review of historical aerial photographs indicates most of the Property has been undeveloped since 1946. Prior to 1946 until prior to 1958, the southwestern area of the Property contained orchards. The only current development on the Property are several buildings along the western side of the Property associated with a current Hayward Fire Station that was constructed between 1968 and 1980.

The laboratory analyses selected, and the number of samples analyzed were specified by Recology, Inc. Vacaville landfill facility following their waste acceptance criteria. Note that the analytical suite should be acceptable to other local suitable Class 3 or Class 2 landfills, but each disposal facility should be consulted before arrangements for delivery of waste are made.

2.0 REGIONAL GEOLOGY/HYDROLOGY

The subject Property is in the western part of the City of Hayward in the San Francisco Bay area. The San Francisco Bay area occupies a broad alluvial valley that slopes gently northward toward San Francisco Bay and is flanked by alluvial fans deposited at the foot of the Diablo Range to the east and the Santa Cruz Mountains to the west. The northern part of the valley is called the Santa Clara Valley. Hillside areas that are known as the East Bay Hills, a part of the Diablo Range, rise abruptly approximately three miles to the east. Surface topography in the immediate vicinity of the Property is almost flat. Elevation of the Property is approximately 35 feet above Mean Sea Level (MSL) according to the United States Geological Survey (USGS) Hayward Quadrangle Topographic Map. Surface topography in the immediate vicinity of the Property is almost flat. Overall the topography slopes gently down to the west toward San Francisco Bay.

The sediments in the vicinity of the Property are fine-grained alluvial sediments that represent distal deposits of alluvial fans that were deposited by rivers draining upland surfaces to the east of the Property (Helley, et al, 1974). These sediments were deposited in a low energy environment on the margins of San Francisco Bay. At shallow depths beneath these sediments are a series of Recent-age (<10,000 years) blue clay layers that become increasingly thicker toward San Francisco Bay. These clay layers are known as the Bay Mud and were deposited in San Francisco Bay during higher stands of sea level. In the vicinity of the Property it is likely that several hundred feet of these sediments overlie sedimentary rocks of the Jurassic-aged Franciscan Formation bedrock.

The Property is in an area known as the Bay Plain, which is a subarea of the Santa Clara Valley Groundwater Basin (California Department of Water Resources, 1967). The Bay Plain is characterized by thin interbeds of sand, silt and clay deposited in flat lying marshland and shallow low energy alluvial channels. Groundwater occurs at shallow depths in thin discontinuous fine sand beds within deposits of mostly silt and clay.

Note the Property is a closed leak case under the name City of Hayward Fire Station #6 that was closed by the Regional Water Quality Control Board (RWQCB) on July 16, 2009. Based on subsurface sampling previously conducted on the Property as part of an investigation for former fuel USTs it was reported that groundwater was encountered between 18 and 21.5 feet below ground surface (bgs) and the groundwater flow direction was to the west (RWQCB, 2009).

3.0 FIELD WORK PERFORMED

3.1 SCOPE OF INVESTIGATION

Scope of work conducted for this investigation is as follows.

- Obtained a drilling permit from the Alameda County Public Works Agency (ACPWA).
- Prepared a health and safety plan and marked drilling area for utility locating by Underground Service Alert (USA).
- Subcontracted an underground utility locator to clear the boreholes for the presence of underground utility lines.
- Contracted a state licensed drilling contractor to drill twelve (12) of the soil borings. The soil borings were advanced to a maximum depth of approximately 11 feet below ground surface (bgs) for the collection of soil samples. After sample collection, the boreholes were sealed to the surface with cement grout.
- Drilled an additional sixty-seven (67) borings using hand digging equipment to a maximum depth of 6 feet bgs for the collection of soil samples.
- Analyzed the samples from the borings for total petroleum hydrocarbons quantified as gasoline range organics (TPH-gro¹), volatile organic compounds (VOCs) by EPA Method 8260, total petroleum hydrocarbons quantified as diesel range organics (TPH-dro) and oil range organics (TPH-oro) by EPA Method 8015, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and CAM 17 metals by EPA Method 6020.
- Presentation of the results of the investigation in this technical report.

3.2 BORING LOCATION AND SAMPLING

ERAS collected soil samples to characterize the soil for the disposal of soil generated during the development of the Property. The sampling locations are based on the foundation design drawing by Ross, Drullis and Cusenbery dated January 17, 2018, provided to ERAS by Dave Hung, Senior Civil Engineer, City of Hayward. The locations of soil borings are shown on **Figure 2**.

¹ TPH-gro, TPH-dro, and TPH-oro are methods that compare analytical results to standards for gasoline, diesel and motor oil, respectively. Therefore, analytical results are estimates of quantities based on what would be expected for the range of hydrocarbon results for the standard. Gasoline range organics (gro) are those hydrocarbon compounds that are in the range of C6 to C10, diesel range organics (dro) are those hydrocarbon compounds that are in the range of C10 to C23, and oil range organics (oro) are those hydrocarbon compounds that are in the range of C18 to C36. There can be overlap in reporting methods as well as identification of compounds that fall within the standard that may not necessarily be derived from gasoline, diesel, or oil.

ERAS procured a drilling permit from the ACPWA prior to drilling activities which is included in **Appendix A**. Twelve 2.5-inch diameter soil borings were drilled using a hydraulic push sampling rig by ECA of Aptos, California on March 7, 2018. Nineteen borings were drilled by ERAS using hand digging equipment on March 8th and 9th, 2018. An additional forty-eight borings were drilled by ERAS using hand digging equipment on May 30, 2018.

The locations of the borings are shown on **Figure 2**. The Standard Operating Procedure for direct-push sampling and hand boring are included in **Appendix B**.

A total of seventy-nine (79) borings were drilled on the Property as follows.

- Nineteen (19) to 1-foot bgs (slab foundation areas)
- Forty-eight (48) to 1.5-feet bgs (parking lot)
- Eight to 2 feet bgs (perimeter footings)
- One to 5 feet bgs (elevator pit)
- One to 6 feet bgs (basement)
- Two to 11 feet bgs (pump test pit and future UST location)

Soil was continuously cored for lithologic logging. The soil cores were logged by ERAS geologist Greg Munsell. The subsurface lithology encountered consisted of silty clay. Groundwater was not encountered in the borings.

A total of thirty-two (32) four-part composite samples were consolidated for analysis from the borings. The soil samples were kept chilled pending transport under chain-of-custody procedures to a California certified environmental analytical laboratory.

No evidence of VOC or petroleum hydrocarbon impact was observed in the form of odors, discoloration, or elevated organic vapor meter (OVM) readings.

3.3 ANALYTICAL RESULTS

The analytical laboratory report is included in **Appendix C**. The samples were analyzed for TPH-gro and VOCs by EPA Method 8260, TPH-dro and TPH-oro by EPA Method 8015, SVOCs by EPA Method 8270, and CAM 17 metals by EPA Method 6020.

No concentrations of TPH-g, VOCs, or SVOCs were detected above the laboratory reporting limits (LRL). The results of analysis of soil samples from the borings indicated the presence of the following.

	Concentration in mg/Kg	Direct contact ESL in mg/Kg
Antimony	<0.5 to 3.0	470
Arsenic	4.1 to 7.8	0.31
Barium	69 to 220	220,000
Cadmium	<0.25 to 0.85	580
Chromium	39 to 69	1,800,000
Cobalt	8.3 to 17	350

Copper	19 to 59	47,000
Lead	4.1 to 110*	320
Mercury	<0.050 to 0.19	190
Molybdenum	<0.50 to 0.68	5,800
Nickel	38 to 57	11,000
Vanadium	34 to 71	5,800
Zinc	40 to 72	350,000
TPH-dro	<1.0 to 38	1,100
TPH-oro	<5.0 to 990	140,000

Notes:

ESL – Environmental screening limits set forth by the California Regional Water Quality Control Board as of February 2016, for direct exposure human health for a commercial site

TPH-oro – Total petroleum hydrocarbon quantified as oil range organics

TPH-dro – Total petroleum hydrocarbons quantified as diesel range organics

mg/kg – milligram per kilogram

* – the sample B-25, 26, 27, 28 COMP with concentration of 110 mg/Kg of lead exceeds disposal criteria

Bold text exceeds the direct contact ESL for a commercial site

Background arsenic concentrations in Bay Area soils often exceed health-based direct-contact goals for arsenic. The United States Geological Survey (USGS) has prepared an online summary of element data by County for the Conterminous US. The data presented for Alameda County (USGS, 2016) indicates a mean of 8.396 mg/kg, a standard deviation of 2.253 mg/kg, and a range of 4.184 mg/kg to 17.411 mg/kg (included as **Attachment D**). The concentrations of arsenic detected in the samples collected from the Property were within the background range for Alameda County and are therefore not considered anthropogenic.

All concentrations of arsenic are above their respective ESL for direct contact and therefore engineering controls to protect workers during construction activities will be required. Engineering controls may include – but are not limited to – dust control using water application.

The concentration of lead in sample B-25, 26, 27, 28 COMP of 110 mg/Kg exceeded non-hazardous disposal criteria and the sample was reanalyzed using the Waste Extraction Test (WET) to determine the Soluble Threshold Limit Concentration (STLC). The result of the analysis by STLC indicated a concentration of 3.1 mg/L which meets disposal criteria for non-hazardous waste.

4.0 CONCLUSIONS

ERAS drilled a total of 79 soil borings B-1 through B-79 on March 7th, 8th and 9th, and May 30th, 2018 for the collection of soil samples. The purpose of this investigation was to characterize the nature and extent of potential chemicals of concern (COCs) for the purposes of waste disposal for a planned construction project on the Property.

The soil samples were analyzed were analyzed for TPH-gro and VOCs by EPA Method 8260, TPH-dro and TPH-oro by EPA Method 8015, SVOCs by EPA Method 8270, and CAM 17 metals by EPA Method 6020 based on waste acceptance criteria from the Recology Vacaville landfill. The analyses indicated that all soil meets disposal criteria as non-hazardous waste.

Note that the analytical suite should be acceptable to other local suitable Class 3 or Class 2 landfills, but each disposal facility should be consulted before arrangements for delivery of waste are made.

Background arsenic concentrations in Bay Area soils often exceed health-based direct-contact goals for arsenic. The USGS has prepared an online summary of element data by County for the Conterminous US. The data presented for Alameda County (USGS, 2016) indicates a mean of 8.396 mg/kg, a standard deviation of 2.253 mg/kg, and a range of 4.184 mg/kg to 17.411 mg/kg. The concentrations of arsenic detected in the samples collected from the Property were within the background range for Alameda County and are therefore not considered anthropogenic.

However, the concentrations of arsenic are above the direct exposure human health ESL of 0.31 mg/kg and therefore engineering controls to protect workers during construction activities will be required. ERAS recommends that a Soil Management Plan (SMP) be prepared for excavation activities, and worker safety, to appropriately manage worker exposures using engineering controls and appropriate personal protective equipment.

The National Institute for Occupational Safety and Health (NIOSH) is the Federal agency responsible for conducting research and making recommendations for the prevention of work related disease and injury, including exposure to hazardous chemicals in air (NIOSH 2007). NIOSH develops and periodically revises Recommended Exposure Limits (RELs) for hazardous substances in the workplace. The RELs are used to promulgate Permissible Exposure Limits (PELs) under the Occupational Safety and Health Act (OSHA). OSHA PELs are derived for an occupational setting, where the: 1. Chemical in question is used in the industrial process; 2. Workers and others who might be exposed to the chemical have knowledge of the chemicals presence; 3. Workers receive appropriate health and safety training; and 4. Workers may be provided with personal protective equipment to minimize exposures. Soil and Groundwater Management Plans should consider these criteria.

5.0 REFERENCES

California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels (Interim Final – February 2016).

California Regional Water Quality Control Board, Water Quality Control Plan, San Francisco Bay Basin Region (2), December 1986.

California Regional Water Quality Control Board, Closure Letter for Leaking Underground Storage Tank Case, City of Hayward Fire Station #6, 1401 West Winton Avenue, Hayward, Alameda County, July 16, 2009.

Goldman, Harold B., Geology of San Francisco Bay prepared for San Francisco Bay Conservation and Development Commission, February 1967.

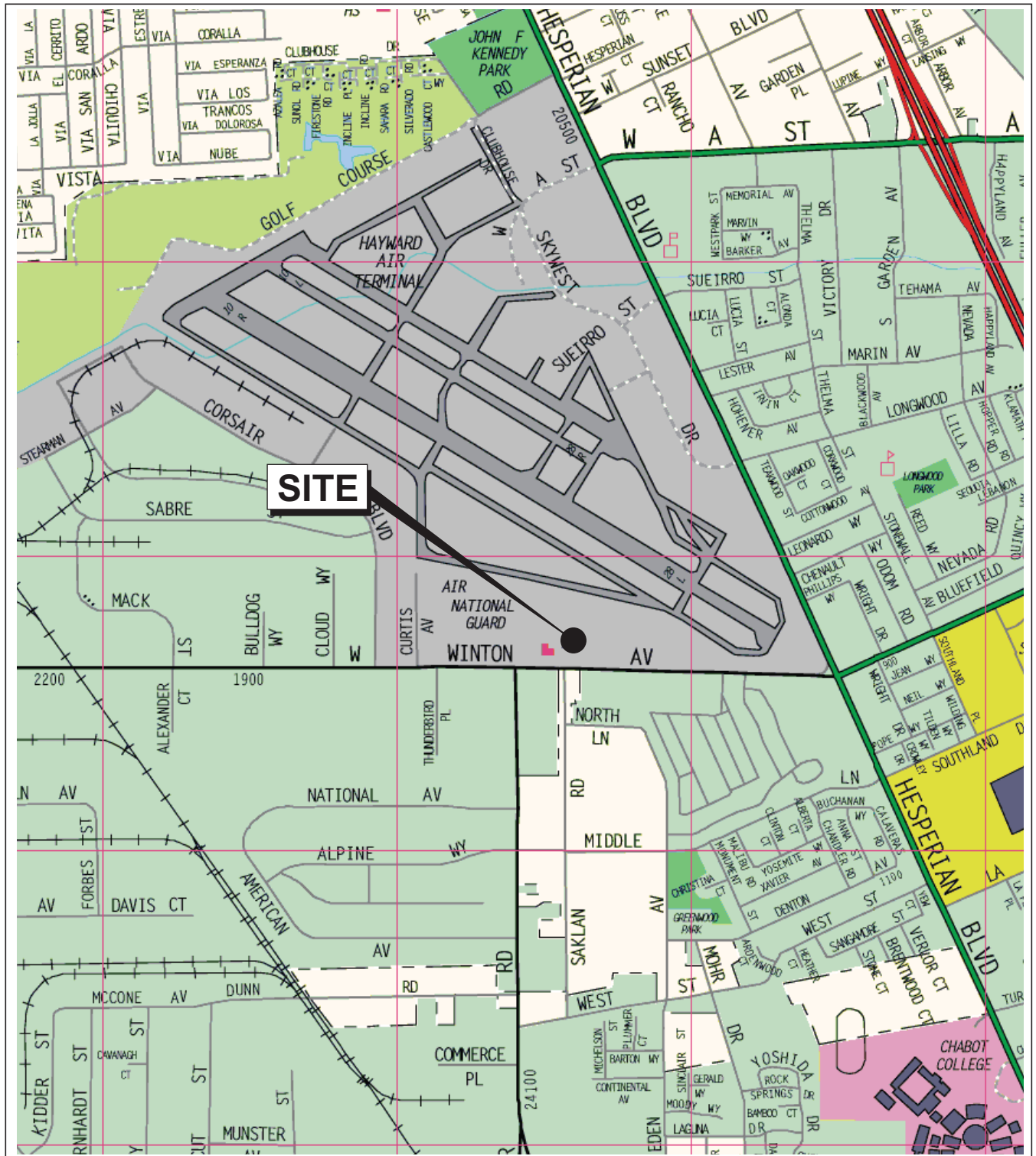
Helley, E.J., La Joie, K.R., Spangle, W.E., and Blair, M.L., Flatland Deposits of the San Francisco Bay Region, California - their geology and engineering properties and their importance to comprehensive planning, U.S. Geological Survey Professional Paper 943, 1974.

Rockridge Geotechnical, Final Geotechnical Investigation, Hayward Fire Station #6 & Fire Training Center, 1401 West Winton Avenue, Hayward, California, July 14, 2017.

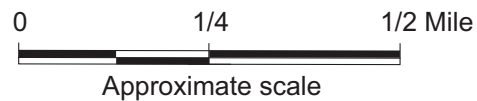
Ross Drulis Cusenbery, Architectural Site Plan – Overall Campus, January 17, 2018.

USGS, National Geochemical Survey, Open File Report 2004-1001 – version 4 (last modified 20 December 2016)

FIGURES



Base map: The Thomas Guide
Alameda County
2002



HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER
1401 WEST WINTON AVENUE
Hayward, California

PROPERTY LOCATION MAP

Date 2018

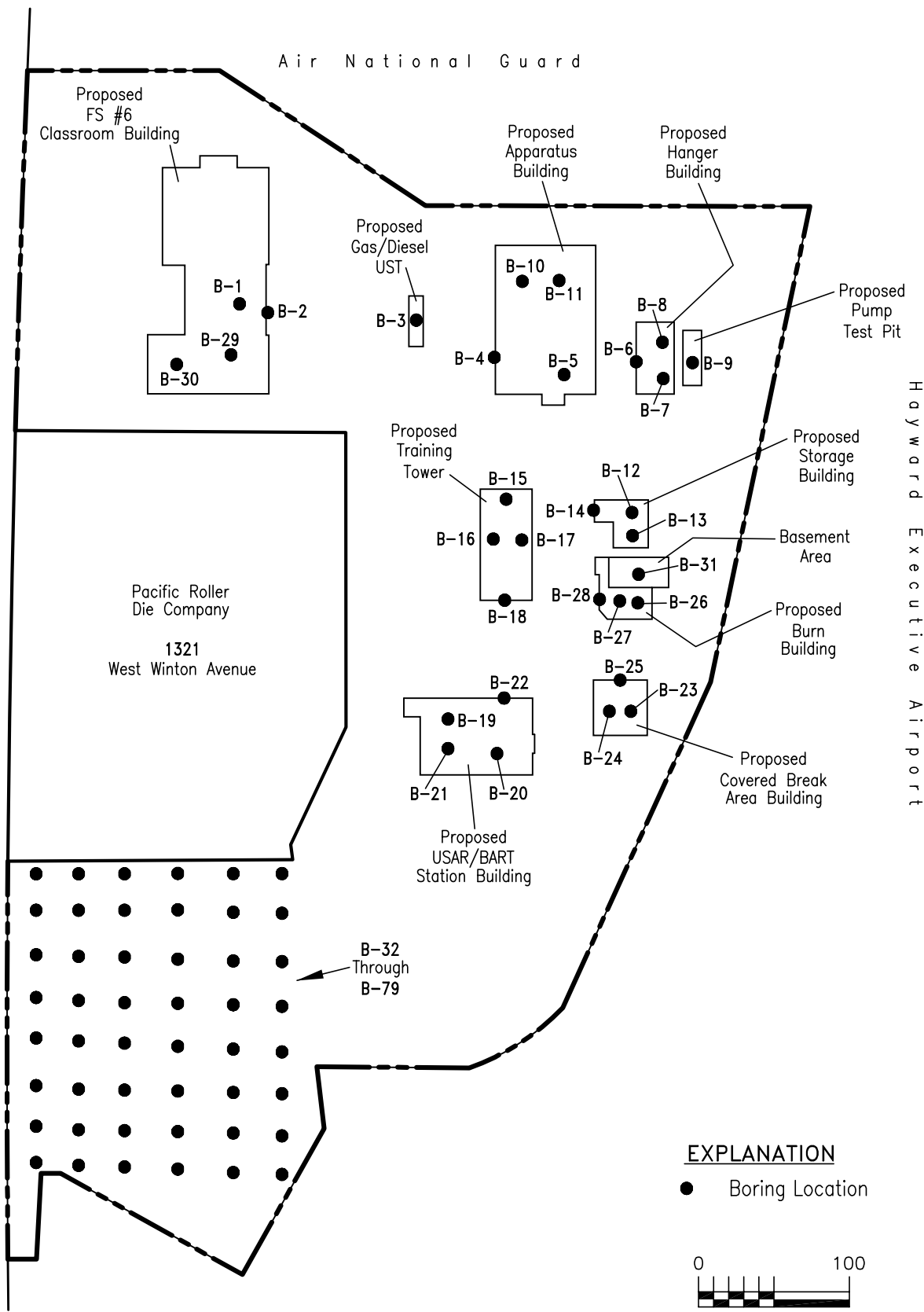
Project No. 17221

Figure 1

WEST WINTON AVENUE

Air National Guard

HAYWARD EXECUTIVE AIRPORT

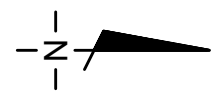


EXPLANATION

● Boring Location



Scale in Feet



BORING LOCATION MAP **FIGURE 2**

Project No. 17221
 1401 West Winton Avenue
 Hayward, California

June, 2018

ERAS
Environmental

APPENDIX A
Drilling Permit

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
—Alameda County—

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 02/21/2018 By jamesy

Permit Numbers: W2018-0122
Permits Valid from 03/07/2018 to 03/07/2018

Application Id: 1518820347873
Site Location: 1401 W Winton Ave, Hayward, CA 94545, USA

City of Project Site: Hayward

eight borings to 2 feet, two borings to 11 feet, one boring to 6 feet, and one boring to 5 feet for the collection of soil samples

Project Start Date: 03/07/2018

Completion Date: 03/07/2018

Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Applicant: ERAS Environmental Inc. - Andrew Savage
1533 B Street, Hayward, CA 94541

Phone: 510-247-9885 x302

Property Owner: City of Hayward Fire Department
777 B Street, Hayward, CA 94541

Phone: --

Client: City of Hayward Fire Department
777 B Street, Hayward, CA 94541

Phone: --

Contact: Andrew Savage

Phone: 510-247-9885 x302
Cell: 925-330-8926

Receipt Number: WR2018-0093 Total Due: \$265.00
Payer Name : Andrew Savage Total Amount Paid: \$265.00
Paid By: MC PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 12 Boreholes

Driller: Environmental Control Associates (ECA) - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2018-0122	02/21/2018	06/05/2018	12	2.75 in.	12.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

APPENDIX B

Standard Operating Procedures

STANDARD OPERATING PROCEDURE – DIRECT PUSH BORINGS

SOIL CORING AND SAMPLING PROCEDURES

Prior to drilling, all boreholes will be hand dug to a depth of 4-5 feet below ground surface (bgs) to check for underground utilities.

Soil and groundwater samples are collected for lithologic and chemical analyses using a direct driven soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. As the rods are advanced, soil is driven into an approximately 2.5-inch-diameter sample barrel that is attached to the end of the rods. Soil samples are collected in sleeves inside the sample barrel as the rods are advanced. After being driven 4 to 5 feet into the ground, the rods are removed from the borehole. The sleeve containing the soil core is removed from the sample barrel, and can then be preserved for chemical analyses, or used for lithologic description. This process is repeated until the desired depth or instrument refusal is reached.

A soil core interval selected for analyses is cut from the sleeve using a pre-cleaned hacksaw. The ends of the tube are covered with aluminum foil or Teflon liner and sealed with plastic caps. The soil-filled liner is labeled with the bore number, sample depth, site location, date, and time. The samples are placed in bags and stored in a cooler containing ice. Soil from the core adjacent to the interval selected for analyses is placed in a plastic zip-top bag. The soil is allowed to volatilize for a period of time, depending on the ambient temperature. The soil is scanned with a flame-ionization detector (FID) or photo-ionization detector (PID).

All sample barrels, rods, and tools (e.g. hacksaw) are cleaned with Alconox or equivalent detergent and de-ionized water. All rinsate from the cleaning is contained in 55-gallon drums at the project site.

GROUNDWATER SAMPLING FROM DIRECT PUSH BORINGS

After the targeted water-bearing zone has been penetrated, the soil-sample barrel is removed from the borehole. Small-diameter well casing with 0.010-inch slotted well screen may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole. Groundwater samples may then be collected with a bailer, peristaltic pump, submersible or other appropriate pump until adequate sample volume is obtained. Peristaltic pumps are not used in applications requiring a lift of greater than 1 foot of net head.

Groundwater samples are preserved, stored in an ice-filled cooler, and are delivered, under chain-of-custody, to a laboratory certified by the California Department of Health Services (DHS) for hazardous materials analysis.

BOREHOLE GROUTING FOR DIRECT PUSH BORINGS

Upon completion of soil and water sampling, boreholes will be abandoned with neat cement grout to the surface. If the borehole was advanced into groundwater, the grout is pumped through a grouting tube positioned at the bottom of the borehole.

STANDARD OPERATING PROCEDURE– HAND BORINGS

SOIL CORING AND SAMPLING PROCEDURES

Prior to drilling, the surface is either cored if concrete or hammered through using a pick, if asphalt.

A hand operated coring device equipped with a 3-inch diameter auger bit is advanced into the soil until full. The auger is removed and emptied, and this process is repeated until the desired depth is reached. The hand auger is removed and a slide hammer core sampling device, equipped with two 3-inch long, 2-inch diameter brass liners is advanced six inches into the undisturbed soil at the bottom of the borehole.

One of the 3-inch liners is selected, and the ends of the tube are covered with Teflon liner and sealed with plastic caps. The soil-filled liner is labeled with the borehole number, sample depth, site location, date, and time. The samples are placed in bags and stored in a cooler containing ice. Soil from the core adjacent to the interval selected for analyses is placed in a plastic zip-top bag. The soil is allowed to volatilize for a period of time, depending on the ambient temperature. The soil is scanned with a flame-ionization detector (FID) or photo-ionization detector (PID).

All sample barrels, rods, and tools are cleaned with Alconox or equivalent detergent and de-ionized water. All rinsate from the cleaning is contained in covered 5-gallon plastic buckets or 55-gallon drums at the project site.

BOREHOLE GROUTING FOR HAND BORINGS

Upon completion of soil and water sampling, boreholes will be abandoned with neat cement grout. If the borehole was advanced into groundwater, the grout is pumped through a grouting tube positioned at the bottom of the borehole.

APPENDIX C
Analytical Results



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1803578

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Greg Munsell

Project P.O.:

Project: 17221; 1401 West Winton, Hayward

Project Received: 03/09/2018

Analytical Report reviewed & approved for release on 03/19/2018 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward
WorkOrder: 1803578

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward
WorkOrder: 1803578

Analytical Qualifiers

S Surrogate spike recovery outside accepted recovery limits
a3 Sample diluted due to high organic content.
a4 Reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
c2 Surrogate recovery outside of the control limits due to matrix interference.
e2 Diesel range compounds are significant; no recognizable pattern
e7 Oil range compounds are significant

Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F3 The surrogate standard recovery and/or RPD is outside of acceptance limits.
F7 LCS recovery for this compound is above acceptance limits but the sample analytes were not detected; therefore, the data is reportable.
F10 MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC17 03131826.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	40	20	03/13/2018 21:20
Acenaphthylene	ND	40	20	03/13/2018 21:20
Acetochlor	ND	40	20	03/13/2018 21:20
Anthracene	ND	40	20	03/13/2018 21:20
Benzidine	ND	210	20	03/13/2018 21:20
Benzo (a) anthracene	ND	40	20	03/13/2018 21:20
Benzo (a) pyrene	ND	40	20	03/13/2018 21:20
Benzo (b) fluoranthene	ND	40	20	03/13/2018 21:20
Benzo (g,h,i) perylene	ND	40	20	03/13/2018 21:20
Benzo (k) fluoranthene	ND	40	20	03/13/2018 21:20
Benzyl Alcohol	ND	210	20	03/13/2018 21:20
1,1-Biphenyl	ND	40	20	03/13/2018 21:20
Bis (2-chloroethoxy) Methane	ND	40	20	03/13/2018 21:20
Bis (2-chloroethyl) Ether	ND	40	20	03/13/2018 21:20
Bis (2-chloroisopropyl) Ether	ND	40	20	03/13/2018 21:20
Bis (2-ethylhexyl) Adipate	ND	40	20	03/13/2018 21:20
Bis (2-ethylhexyl) Phthalate	ND	40	20	03/13/2018 21:20
4-Bromophenyl Phenyl Ether	ND	40	20	03/13/2018 21:20
Butylbenzyl Phthalate	ND	40	20	03/13/2018 21:20
4-Chloroaniline	ND	80	20	03/13/2018 21:20
4-Chloro-3-methylphenol	ND	40	20	03/13/2018 21:20
2-Chloronaphthalene	ND	40	20	03/13/2018 21:20
2-Chlorophenol	ND	40	20	03/13/2018 21:20
4-Chlorophenyl Phenyl Ether	ND	40	20	03/13/2018 21:20
Chrysene	ND	40	20	03/13/2018 21:20
Dibenzo (a,h) anthracene	ND	40	20	03/13/2018 21:20
Dibenzofuran	ND	40	20	03/13/2018 21:20
Di-n-butyl Phthalate	ND	40	20	03/13/2018 21:20
1,2-Dichlorobenzene	ND	40	20	03/13/2018 21:20
1,3-Dichlorobenzene	ND	40	20	03/13/2018 21:20
1,4-Dichlorobenzene	ND	40	20	03/13/2018 21:20
3,3-Dichlorobenzidine	ND	80	20	03/13/2018 21:20
2,4-Dichlorophenol	ND	40	20	03/13/2018 21:20
Diethyl Phthalate	ND	40	20	03/13/2018 21:20
2,4-Dimethylphenol	ND	40	20	03/13/2018 21:20
Dimethyl Phthalate	ND	40	20	03/13/2018 21:20
4,6-Dinitro-2-methylphenol	ND	210	20	03/13/2018 21:20

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC17 03131826.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	1000	20	03/13/2018 21:20
2,4-Dinitrotoluene	ND	40	20	03/13/2018 21:20
2,6-Dinitrotoluene	ND	40	20	03/13/2018 21:20
Di-n-octyl Phthalate	ND	80	20	03/13/2018 21:20
1,2-Diphenylhydrazine	ND	40	20	03/13/2018 21:20
Fluoranthene	ND	40	20	03/13/2018 21:20
Fluorene	ND	40	20	03/13/2018 21:20
Hexachlorobenzene	ND	40	20	03/13/2018 21:20
Hexachlorobutadiene	ND	40	20	03/13/2018 21:20
Hexachlorocyclopentadiene	ND	210	20	03/13/2018 21:20
Hexachloroethane	ND	40	20	03/13/2018 21:20
Indeno (1,2,3-cd) pyrene	ND	40	20	03/13/2018 21:20
Isophorone	ND	40	20	03/13/2018 21:20
2-Methylnaphthalene	ND	40	20	03/13/2018 21:20
2-Methylphenol (o-Cresol)	ND	40	20	03/13/2018 21:20
3 & 4-Methylphenol (m,p-Cresol)	ND	40	20	03/13/2018 21:20
Naphthalene	ND	40	20	03/13/2018 21:20
2-Nitroaniline	ND	210	20	03/13/2018 21:20
3-Nitroaniline	ND	210	20	03/13/2018 21:20
4-Nitroaniline	ND	210	20	03/13/2018 21:20
Nitrobenzene	ND	40	20	03/13/2018 21:20
2-Nitrophenol	ND	210	20	03/13/2018 21:20
4-Nitrophenol	ND	210	20	03/13/2018 21:20
N-Nitrosodiphenylamine	ND	40	20	03/13/2018 21:20
N-Nitrosodi-n-propylamine	ND	40	20	03/13/2018 21:20
Pentachlorophenol	ND	210	20	03/13/2018 21:20
Phenanthrene	ND	40	20	03/13/2018 21:20
Phenol	ND	40	20	03/13/2018 21:20
Pyrene	ND	40	20	03/13/2018 21:20
Pyridine	ND	40	20	03/13/2018 21:20
1,2,4-Trichlorobenzene	ND	40	20	03/13/2018 21:20
2,4,5-Trichlorophenol	ND	40	20	03/13/2018 21:20
2,4,6-Trichlorophenol	ND	40	20	03/13/2018 21:20

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC17 03131826.D	154535

Analytes	Result	RL	DF	Date Analyzed
----------	--------	----	----	---------------

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	108	30-130	03/13/2018 21:20
Phenol-d5	78	30-130	03/13/2018 21:20
Nitrobenzene-d5	97	30-130	03/13/2018 21:20
2-Fluorobiphenyl	87	30-130	03/13/2018 21:20
2,4,6-Tribromophenol	63	16-130	03/13/2018 21:20
4-Terphenyl-d14	107	30-130	03/13/2018 21:20

Analyst(s): REB

Analytical Comments: a3,a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC17 03131827.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.0	1	03/13/2018 21:47
Acenaphthylene	ND	2.0	1	03/13/2018 21:47
Acetochlor	ND	2.0	1	03/13/2018 21:47
Anthracene	ND	2.0	1	03/13/2018 21:47
Benzidine	ND	10	1	03/13/2018 21:47
Benzo (a) anthracene	ND	2.0	1	03/13/2018 21:47
Benzo (a) pyrene	ND	2.0	1	03/13/2018 21:47
Benzo (b) fluoranthene	ND	2.0	1	03/13/2018 21:47
Benzo (g,h,i) perylene	ND	2.0	1	03/13/2018 21:47
Benzo (k) fluoranthene	ND	2.0	1	03/13/2018 21:47
Benzyl Alcohol	ND	10	1	03/13/2018 21:47
1,1-Biphenyl	ND	2.0	1	03/13/2018 21:47
Bis (2-chloroethoxy) Methane	ND	2.0	1	03/13/2018 21:47
Bis (2-chloroethyl) Ether	ND	2.0	1	03/13/2018 21:47
Bis (2-chloroisopropyl) Ether	ND	2.0	1	03/13/2018 21:47
Bis (2-ethylhexyl) Adipate	ND	2.0	1	03/13/2018 21:47
Bis (2-ethylhexyl) Phthalate	ND	2.0	1	03/13/2018 21:47
4-Bromophenyl Phenyl Ether	ND	2.0	1	03/13/2018 21:47
Butylbenzyl Phthalate	ND	2.0	1	03/13/2018 21:47
4-Chloroaniline	ND	4.0	1	03/13/2018 21:47
4-Chloro-3-methylphenol	ND	2.0	1	03/13/2018 21:47
2-Chloronaphthalene	ND	2.0	1	03/13/2018 21:47
2-Chlorophenol	ND	2.0	1	03/13/2018 21:47
4-Chlorophenyl Phenyl Ether	ND	2.0	1	03/13/2018 21:47
Chrysene	ND	2.0	1	03/13/2018 21:47
Dibenzo (a,h) anthracene	ND	2.0	1	03/13/2018 21:47
Dibenzofuran	ND	2.0	1	03/13/2018 21:47
Di-n-butyl Phthalate	ND	2.0	1	03/13/2018 21:47
1,2-Dichlorobenzene	ND	2.0	1	03/13/2018 21:47
1,3-Dichlorobenzene	ND	2.0	1	03/13/2018 21:47
1,4-Dichlorobenzene	ND	2.0	1	03/13/2018 21:47
3,3-Dichlorobenzidine	ND	4.0	1	03/13/2018 21:47
2,4-Dichlorophenol	ND	2.0	1	03/13/2018 21:47
Diethyl Phthalate	ND	2.0	1	03/13/2018 21:47
2,4-Dimethylphenol	ND	2.0	1	03/13/2018 21:47
Dimethyl Phthalate	ND	2.0	1	03/13/2018 21:47
4,6-Dinitro-2-methylphenol	ND	10	1	03/13/2018 21:47

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC17 03131827.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	50	1	03/13/2018 21:47
2,4-Dinitrotoluene	ND	2.0	1	03/13/2018 21:47
2,6-Dinitrotoluene	ND	2.0	1	03/13/2018 21:47
Di-n-octyl Phthalate	ND	4.0	1	03/13/2018 21:47
1,2-Diphenylhydrazine	ND	2.0	1	03/13/2018 21:47
Fluoranthene	ND	2.0	1	03/13/2018 21:47
Fluorene	ND	2.0	1	03/13/2018 21:47
Hexachlorobenzene	ND	2.0	1	03/13/2018 21:47
Hexachlorobutadiene	ND	2.0	1	03/13/2018 21:47
Hexachlorocyclopentadiene	ND	10	1	03/13/2018 21:47
Hexachloroethane	ND	2.0	1	03/13/2018 21:47
Indeno (1,2,3-cd) pyrene	ND	2.0	1	03/13/2018 21:47
Isophorone	ND	2.0	1	03/13/2018 21:47
2-Methylnaphthalene	ND	2.0	1	03/13/2018 21:47
2-Methylphenol (o-Cresol)	ND	2.0	1	03/13/2018 21:47
3 & 4-Methylphenol (m,p-Cresol)	ND	2.0	1	03/13/2018 21:47
Naphthalene	ND	2.0	1	03/13/2018 21:47
2-Nitroaniline	ND	10	1	03/13/2018 21:47
3-Nitroaniline	ND	10	1	03/13/2018 21:47
4-Nitroaniline	ND	10	1	03/13/2018 21:47
Nitrobenzene	ND	2.0	1	03/13/2018 21:47
2-Nitrophenol	ND	10	1	03/13/2018 21:47
4-Nitrophenol	ND	10	1	03/13/2018 21:47
N-Nitrosodiphenylamine	ND	2.0	1	03/13/2018 21:47
N-Nitrosodi-n-propylamine	ND	2.0	1	03/13/2018 21:47
Pentachlorophenol	ND	10	1	03/13/2018 21:47
Phenanthrene	ND	2.0	1	03/13/2018 21:47
Phenol	ND	2.0	1	03/13/2018 21:47
Pyrene	ND	2.0	1	03/13/2018 21:47
Pyridine	ND	2.0	1	03/13/2018 21:47
1,2,4-Trichlorobenzene	ND	2.0	1	03/13/2018 21:47
2,4,5-Trichlorophenol	ND	2.0	1	03/13/2018 21:47
2,4,6-Trichlorophenol	ND	2.0	1	03/13/2018 21:47

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC17 03131827.D	154535

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	100	30-130		03/13/2018 21:47
Phenol-d5	73	30-130		03/13/2018 21:47
Nitrobenzene-d5	88	30-130		03/13/2018 21:47
2-Fluorobiphenyl	76	30-130		03/13/2018 21:47
2,4,6-Tribromophenol	37	16-130		03/13/2018 21:47
4-Terphenyl-d14	87	30-130		03/13/2018 21:47

Analyst(s): REB

Analytical Comments: a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC17 03131828.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	40	20	03/13/2018 22:14
Acenaphthylene	ND	40	20	03/13/2018 22:14
Acetochlor	ND	40	20	03/13/2018 22:14
Anthracene	ND	40	20	03/13/2018 22:14
Benzidine	ND	210	20	03/13/2018 22:14
Benzo (a) anthracene	ND	40	20	03/13/2018 22:14
Benzo (a) pyrene	ND	40	20	03/13/2018 22:14
Benzo (b) fluoranthene	ND	40	20	03/13/2018 22:14
Benzo (g,h,i) perylene	ND	40	20	03/13/2018 22:14
Benzo (k) fluoranthene	ND	40	20	03/13/2018 22:14
Benzyl Alcohol	ND	210	20	03/13/2018 22:14
1,1-Biphenyl	ND	40	20	03/13/2018 22:14
Bis (2-chloroethoxy) Methane	ND	40	20	03/13/2018 22:14
Bis (2-chloroethyl) Ether	ND	40	20	03/13/2018 22:14
Bis (2-chloroisopropyl) Ether	ND	40	20	03/13/2018 22:14
Bis (2-ethylhexyl) Adipate	ND	40	20	03/13/2018 22:14
Bis (2-ethylhexyl) Phthalate	ND	40	20	03/13/2018 22:14
4-Bromophenyl Phenyl Ether	ND	40	20	03/13/2018 22:14
Butylbenzyl Phthalate	ND	40	20	03/13/2018 22:14
4-Chloroaniline	ND	80	20	03/13/2018 22:14
4-Chloro-3-methylphenol	ND	40	20	03/13/2018 22:14
2-Chloronaphthalene	ND	40	20	03/13/2018 22:14
2-Chlorophenol	ND	40	20	03/13/2018 22:14
4-Chlorophenyl Phenyl Ether	ND	40	20	03/13/2018 22:14
Chrysene	ND	40	20	03/13/2018 22:14
Dibenzo (a,h) anthracene	ND	40	20	03/13/2018 22:14
Dibenzofuran	ND	40	20	03/13/2018 22:14
Di-n-butyl Phthalate	ND	40	20	03/13/2018 22:14
1,2-Dichlorobenzene	ND	40	20	03/13/2018 22:14
1,3-Dichlorobenzene	ND	40	20	03/13/2018 22:14
1,4-Dichlorobenzene	ND	40	20	03/13/2018 22:14
3,3-Dichlorobenzidine	ND	80	20	03/13/2018 22:14
2,4-Dichlorophenol	ND	40	20	03/13/2018 22:14
Diethyl Phthalate	ND	40	20	03/13/2018 22:14
2,4-Dimethylphenol	ND	40	20	03/13/2018 22:14
Dimethyl Phthalate	ND	40	20	03/13/2018 22:14
4,6-Dinitro-2-methylphenol	ND	210	20	03/13/2018 22:14

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC17 03131828.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	1000	20	03/13/2018 22:14
2,4-Dinitrotoluene	ND	40	20	03/13/2018 22:14
2,6-Dinitrotoluene	ND	40	20	03/13/2018 22:14
Di-n-octyl Phthalate	ND	80	20	03/13/2018 22:14
1,2-Diphenylhydrazine	ND	40	20	03/13/2018 22:14
Fluoranthene	ND	40	20	03/13/2018 22:14
Fluorene	ND	40	20	03/13/2018 22:14
Hexachlorobenzene	ND	40	20	03/13/2018 22:14
Hexachlorobutadiene	ND	40	20	03/13/2018 22:14
Hexachlorocyclopentadiene	ND	210	20	03/13/2018 22:14
Hexachloroethane	ND	40	20	03/13/2018 22:14
Indeno (1,2,3-cd) pyrene	ND	40	20	03/13/2018 22:14
Isophorone	ND	40	20	03/13/2018 22:14
2-Methylnaphthalene	ND	40	20	03/13/2018 22:14
2-Methylphenol (o-Cresol)	ND	40	20	03/13/2018 22:14
3 & 4-Methylphenol (m,p-Cresol)	ND	40	20	03/13/2018 22:14
Naphthalene	ND	40	20	03/13/2018 22:14
2-Nitroaniline	ND	210	20	03/13/2018 22:14
3-Nitroaniline	ND	210	20	03/13/2018 22:14
4-Nitroaniline	ND	210	20	03/13/2018 22:14
Nitrobenzene	ND	40	20	03/13/2018 22:14
2-Nitrophenol	ND	210	20	03/13/2018 22:14
4-Nitrophenol	ND	210	20	03/13/2018 22:14
N-Nitrosodiphenylamine	ND	40	20	03/13/2018 22:14
N-Nitrosodi-n-propylamine	ND	40	20	03/13/2018 22:14
Pentachlorophenol	ND	210	20	03/13/2018 22:14
Phenanthrene	ND	40	20	03/13/2018 22:14
Phenol	ND	40	20	03/13/2018 22:14
Pyrene	ND	40	20	03/13/2018 22:14
Pyridine	ND	40	20	03/13/2018 22:14
1,2,4-Trichlorobenzene	ND	40	20	03/13/2018 22:14
2,4,5-Trichlorophenol	ND	40	20	03/13/2018 22:14
2,4,6-Trichlorophenol	ND	40	20	03/13/2018 22:14

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC17 03131828.D	154535

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	99	30-130		03/13/2018 22:14
Phenol-d5	73	30-130		03/13/2018 22:14
Nitrobenzene-d5	94	30-130		03/13/2018 22:14
2-Fluorobiphenyl	73	30-130		03/13/2018 22:14
2,4,6-Tribromophenol	70	16-130		03/13/2018 22:14
4-Terphenyl-d14	81	30-130		03/13/2018 22:14

Analyst(s): REB

Analytical Comments: a3,a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC17 03131829.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.0	1	03/13/2018 22:41
Acenaphthylene	ND	2.0	1	03/13/2018 22:41
Acetochlor	ND	2.0	1	03/13/2018 22:41
Anthracene	ND	2.0	1	03/13/2018 22:41
Benzidine	ND	10	1	03/13/2018 22:41
Benzo (a) anthracene	ND	2.0	1	03/13/2018 22:41
Benzo (a) pyrene	ND	2.0	1	03/13/2018 22:41
Benzo (b) fluoranthene	ND	2.0	1	03/13/2018 22:41
Benzo (g,h,i) perylene	ND	2.0	1	03/13/2018 22:41
Benzo (k) fluoranthene	ND	2.0	1	03/13/2018 22:41
Benzyl Alcohol	ND	10	1	03/13/2018 22:41
1,1-Biphenyl	ND	2.0	1	03/13/2018 22:41
Bis (2-chloroethoxy) Methane	ND	2.0	1	03/13/2018 22:41
Bis (2-chloroethyl) Ether	ND	2.0	1	03/13/2018 22:41
Bis (2-chloroisopropyl) Ether	ND	2.0	1	03/13/2018 22:41
Bis (2-ethylhexyl) Adipate	ND	2.0	1	03/13/2018 22:41
Bis (2-ethylhexyl) Phthalate	ND	2.0	1	03/13/2018 22:41
4-Bromophenyl Phenyl Ether	ND	2.0	1	03/13/2018 22:41
Butylbenzyl Phthalate	ND	2.0	1	03/13/2018 22:41
4-Chloroaniline	ND	4.0	1	03/13/2018 22:41
4-Chloro-3-methylphenol	ND	2.0	1	03/13/2018 22:41
2-Chloronaphthalene	ND	2.0	1	03/13/2018 22:41
2-Chlorophenol	ND	2.0	1	03/13/2018 22:41
4-Chlorophenyl Phenyl Ether	ND	2.0	1	03/13/2018 22:41
Chrysene	ND	2.0	1	03/13/2018 22:41
Dibenzo (a,h) anthracene	ND	2.0	1	03/13/2018 22:41
Dibenzofuran	ND	2.0	1	03/13/2018 22:41
Di-n-butyl Phthalate	ND	2.0	1	03/13/2018 22:41
1,2-Dichlorobenzene	ND	2.0	1	03/13/2018 22:41
1,3-Dichlorobenzene	ND	2.0	1	03/13/2018 22:41
1,4-Dichlorobenzene	ND	2.0	1	03/13/2018 22:41
3,3-Dichlorobenzidine	ND	4.0	1	03/13/2018 22:41
2,4-Dichlorophenol	ND	2.0	1	03/13/2018 22:41
Diethyl Phthalate	ND	2.0	1	03/13/2018 22:41
2,4-Dimethylphenol	ND	2.0	1	03/13/2018 22:41
Dimethyl Phthalate	ND	2.0	1	03/13/2018 22:41
4,6-Dinitro-2-methylphenol	ND	10	1	03/13/2018 22:41

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC17 03131829.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	50	1	03/13/2018 22:41
2,4-Dinitrotoluene	ND	2.0	1	03/13/2018 22:41
2,6-Dinitrotoluene	ND	2.0	1	03/13/2018 22:41
Di-n-octyl Phthalate	ND	4.0	1	03/13/2018 22:41
1,2-Diphenylhydrazine	ND	2.0	1	03/13/2018 22:41
Fluoranthene	ND	2.0	1	03/13/2018 22:41
Fluorene	ND	2.0	1	03/13/2018 22:41
Hexachlorobenzene	ND	2.0	1	03/13/2018 22:41
Hexachlorobutadiene	ND	2.0	1	03/13/2018 22:41
Hexachlorocyclopentadiene	ND	10	1	03/13/2018 22:41
Hexachloroethane	ND	2.0	1	03/13/2018 22:41
Indeno (1,2,3-cd) pyrene	ND	2.0	1	03/13/2018 22:41
Isophorone	ND	2.0	1	03/13/2018 22:41
2-Methylnaphthalene	ND	2.0	1	03/13/2018 22:41
2-Methylphenol (o-Cresol)	ND	2.0	1	03/13/2018 22:41
3 & 4-Methylphenol (m,p-Cresol)	ND	2.0	1	03/13/2018 22:41
Naphthalene	ND	2.0	1	03/13/2018 22:41
2-Nitroaniline	ND	10	1	03/13/2018 22:41
3-Nitroaniline	ND	10	1	03/13/2018 22:41
4-Nitroaniline	ND	10	1	03/13/2018 22:41
Nitrobenzene	ND	2.0	1	03/13/2018 22:41
2-Nitrophenol	ND	10	1	03/13/2018 22:41
4-Nitrophenol	ND	10	1	03/13/2018 22:41
N-Nitrosodiphenylamine	ND	2.0	1	03/13/2018 22:41
N-Nitrosodi-n-propylamine	ND	2.0	1	03/13/2018 22:41
Pentachlorophenol	ND	10	1	03/13/2018 22:41
Phenanthrene	ND	2.0	1	03/13/2018 22:41
Phenol	ND	2.0	1	03/13/2018 22:41
Pyrene	ND	2.0	1	03/13/2018 22:41
Pyridine	ND	2.0	1	03/13/2018 22:41
1,2,4-Trichlorobenzene	ND	2.0	1	03/13/2018 22:41
2,4,5-Trichlorophenol	ND	2.0	1	03/13/2018 22:41
2,4,6-Trichlorophenol	ND	2.0	1	03/13/2018 22:41

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC17 03131829.D	154535

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
2-Fluorophenol	99	30-130		03/13/2018 22:41
Phenol-d5	77	30-130		03/13/2018 22:41
Nitrobenzene-d5	85	30-130		03/13/2018 22:41
2-Fluorobiphenyl	76	30-130		03/13/2018 22:41
2,4,6-Tribromophenol	46	16-130		03/13/2018 22:41
4-Terphenyl-d14	86	30-130		03/13/2018 22:41

Analyst(s): REB

Analytical Comments: a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC17 03131832.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	03/14/2018 00:02
Acenaphthylene	ND	0.25	1	03/14/2018 00:02
Acetochlor	ND	0.25	1	03/14/2018 00:02
Anthracene	ND	0.25	1	03/14/2018 00:02
Benzidine	ND	1.3	1	03/14/2018 00:02
Benzo (a) anthracene	ND	0.25	1	03/14/2018 00:02
Benzo (a) pyrene	ND	0.25	1	03/14/2018 00:02
Benzo (b) fluoranthene	ND	0.25	1	03/14/2018 00:02
Benzo (g,h,i) perylene	ND	0.25	1	03/14/2018 00:02
Benzo (k) fluoranthene	ND	0.25	1	03/14/2018 00:02
Benzyl Alcohol	ND	1.3	1	03/14/2018 00:02
1,1-Biphenyl	ND	0.25	1	03/14/2018 00:02
Bis (2-chloroethoxy) Methane	ND	0.25	1	03/14/2018 00:02
Bis (2-chloroethyl) Ether	ND	0.25	1	03/14/2018 00:02
Bis (2-chloroisopropyl) Ether	ND	0.25	1	03/14/2018 00:02
Bis (2-ethylhexyl) Adipate	ND	0.25	1	03/14/2018 00:02
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	03/14/2018 00:02
4-Bromophenyl Phenyl Ether	ND	0.25	1	03/14/2018 00:02
Butylbenzyl Phthalate	ND	0.25	1	03/14/2018 00:02
4-Chloroaniline	ND	0.50	1	03/14/2018 00:02
4-Chloro-3-methylphenol	ND	0.25	1	03/14/2018 00:02
2-Chloronaphthalene	ND	0.25	1	03/14/2018 00:02
2-Chlorophenol	ND	0.25	1	03/14/2018 00:02
4-Chlorophenyl Phenyl Ether	ND	0.25	1	03/14/2018 00:02
Chrysene	ND	0.25	1	03/14/2018 00:02
Dibenzo (a,h) anthracene	ND	0.25	1	03/14/2018 00:02
Dibenzofuran	ND	0.25	1	03/14/2018 00:02
Di-n-butyl Phthalate	ND	0.25	1	03/14/2018 00:02
1,2-Dichlorobenzene	ND	0.25	1	03/14/2018 00:02
1,3-Dichlorobenzene	ND	0.25	1	03/14/2018 00:02
1,4-Dichlorobenzene	ND	0.25	1	03/14/2018 00:02
3,3-Dichlorobenzidine	ND	0.50	1	03/14/2018 00:02
2,4-Dichlorophenol	ND	0.25	1	03/14/2018 00:02
Diethyl Phthalate	ND	0.25	1	03/14/2018 00:02
2,4-Dimethylphenol	ND	0.25	1	03/14/2018 00:02
Dimethyl Phthalate	ND	0.25	1	03/14/2018 00:02
4,6-Dinitro-2-methylphenol	ND	1.3	1	03/14/2018 00:02

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC17 03131832.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	03/14/2018 00:02
2,4-Dinitrotoluene	ND	0.25	1	03/14/2018 00:02
2,6-Dinitrotoluene	ND	0.25	1	03/14/2018 00:02
Di-n-octyl Phthalate	ND	0.50	1	03/14/2018 00:02
1,2-Diphenylhydrazine	ND	0.25	1	03/14/2018 00:02
Fluoranthene	ND	0.25	1	03/14/2018 00:02
Fluorene	ND	0.25	1	03/14/2018 00:02
Hexachlorobenzene	ND	0.25	1	03/14/2018 00:02
Hexachlorobutadiene	ND	0.25	1	03/14/2018 00:02
Hexachlorocyclopentadiene	ND	1.3	1	03/14/2018 00:02
Hexachloroethane	ND	0.25	1	03/14/2018 00:02
Indeno (1,2,3-cd) pyrene	ND	0.25	1	03/14/2018 00:02
Isophorone	ND	0.25	1	03/14/2018 00:02
2-Methylnaphthalene	ND	0.25	1	03/14/2018 00:02
2-Methylphenol (o-Cresol)	ND	0.25	1	03/14/2018 00:02
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	03/14/2018 00:02
Naphthalene	ND	0.25	1	03/14/2018 00:02
2-Nitroaniline	ND	1.3	1	03/14/2018 00:02
3-Nitroaniline	ND	1.3	1	03/14/2018 00:02
4-Nitroaniline	ND	1.3	1	03/14/2018 00:02
Nitrobenzene	ND	0.25	1	03/14/2018 00:02
2-Nitrophenol	ND	1.3	1	03/14/2018 00:02
4-Nitrophenol	ND	1.3	1	03/14/2018 00:02
N-Nitrosodiphenylamine	ND	0.25	1	03/14/2018 00:02
N-Nitrosodi-n-propylamine	ND	0.25	1	03/14/2018 00:02
Pentachlorophenol	ND	1.3	1	03/14/2018 00:02
Phenanthrene	ND	0.25	1	03/14/2018 00:02
Phenol	ND	0.25	1	03/14/2018 00:02
Pyrene	ND	0.25	1	03/14/2018 00:02
Pyridine	ND	0.25	1	03/14/2018 00:02
1,2,4-Trichlorobenzene	ND	0.25	1	03/14/2018 00:02
2,4,5-Trichlorophenol	ND	0.25	1	03/14/2018 00:02
2,4,6-Trichlorophenol	ND	0.25	1	03/14/2018 00:02

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC17 03131832.D	154535

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	137	S	30-130	03/14/2018 00:02
Phenol-d5	126		30-130	03/14/2018 00:02
Nitrobenzene-d5	128		30-130	03/14/2018 00:02
2-Fluorobiphenyl	106		30-130	03/14/2018 00:02
2,4,6-Tribromophenol	81		16-130	03/14/2018 00:02
4-Terphenyl-d14	125		30-130	03/14/2018 00:02

Analyst(s): REB

Analytical Comments: c2



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC17 03131833.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	03/14/2018 00:29
Acenaphthylene	ND	0.25	1	03/14/2018 00:29
Acetochlor	ND	0.25	1	03/14/2018 00:29
Anthracene	ND	0.25	1	03/14/2018 00:29
Benzidine	ND	1.3	1	03/14/2018 00:29
Benzo (a) anthracene	ND	0.25	1	03/14/2018 00:29
Benzo (a) pyrene	ND	0.25	1	03/14/2018 00:29
Benzo (b) fluoranthene	ND	0.25	1	03/14/2018 00:29
Benzo (g,h,i) perylene	ND	0.25	1	03/14/2018 00:29
Benzo (k) fluoranthene	ND	0.25	1	03/14/2018 00:29
Benzyl Alcohol	ND	1.3	1	03/14/2018 00:29
1,1-Biphenyl	ND	0.25	1	03/14/2018 00:29
Bis (2-chloroethoxy) Methane	ND	0.25	1	03/14/2018 00:29
Bis (2-chloroethyl) Ether	ND	0.25	1	03/14/2018 00:29
Bis (2-chloroisopropyl) Ether	ND	0.25	1	03/14/2018 00:29
Bis (2-ethylhexyl) Adipate	ND	0.25	1	03/14/2018 00:29
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	03/14/2018 00:29
4-Bromophenyl Phenyl Ether	ND	0.25	1	03/14/2018 00:29
Butylbenzyl Phthalate	ND	0.25	1	03/14/2018 00:29
4-Chloroaniline	ND	0.50	1	03/14/2018 00:29
4-Chloro-3-methylphenol	ND	0.25	1	03/14/2018 00:29
2-Chloronaphthalene	ND	0.25	1	03/14/2018 00:29
2-Chlorophenol	ND	0.25	1	03/14/2018 00:29
4-Chlorophenyl Phenyl Ether	ND	0.25	1	03/14/2018 00:29
Chrysene	ND	0.25	1	03/14/2018 00:29
Dibenzo (a,h) anthracene	ND	0.25	1	03/14/2018 00:29
Dibenzofuran	ND	0.25	1	03/14/2018 00:29
Di-n-butyl Phthalate	ND	0.25	1	03/14/2018 00:29
1,2-Dichlorobenzene	ND	0.25	1	03/14/2018 00:29
1,3-Dichlorobenzene	ND	0.25	1	03/14/2018 00:29
1,4-Dichlorobenzene	ND	0.25	1	03/14/2018 00:29
3,3-Dichlorobenzidine	ND	0.50	1	03/14/2018 00:29
2,4-Dichlorophenol	ND	0.25	1	03/14/2018 00:29
Diethyl Phthalate	ND	0.25	1	03/14/2018 00:29
2,4-Dimethylphenol	ND	0.25	1	03/14/2018 00:29
Dimethyl Phthalate	ND	0.25	1	03/14/2018 00:29
4,6-Dinitro-2-methylphenol	ND	1.3	1	03/14/2018 00:29

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC17 03131833.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	03/14/2018 00:29
2,4-Dinitrotoluene	ND	0.25	1	03/14/2018 00:29
2,6-Dinitrotoluene	ND	0.25	1	03/14/2018 00:29
Di-n-octyl Phthalate	ND	0.50	1	03/14/2018 00:29
1,2-Diphenylhydrazine	ND	0.25	1	03/14/2018 00:29
Fluoranthene	ND	0.25	1	03/14/2018 00:29
Fluorene	ND	0.25	1	03/14/2018 00:29
Hexachlorobenzene	ND	0.25	1	03/14/2018 00:29
Hexachlorobutadiene	ND	0.25	1	03/14/2018 00:29
Hexachlorocyclopentadiene	ND	1.3	1	03/14/2018 00:29
Hexachloroethane	ND	0.25	1	03/14/2018 00:29
Indeno (1,2,3-cd) pyrene	ND	0.25	1	03/14/2018 00:29
Isophorone	ND	0.25	1	03/14/2018 00:29
2-Methylnaphthalene	ND	0.25	1	03/14/2018 00:29
2-Methylphenol (o-Cresol)	ND	0.25	1	03/14/2018 00:29
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	03/14/2018 00:29
Naphthalene	ND	0.25	1	03/14/2018 00:29
2-Nitroaniline	ND	1.3	1	03/14/2018 00:29
3-Nitroaniline	ND	1.3	1	03/14/2018 00:29
4-Nitroaniline	ND	1.3	1	03/14/2018 00:29
Nitrobenzene	ND	0.25	1	03/14/2018 00:29
2-Nitrophenol	ND	1.3	1	03/14/2018 00:29
4-Nitrophenol	ND	1.3	1	03/14/2018 00:29
N-Nitrosodiphenylamine	ND	0.25	1	03/14/2018 00:29
N-Nitrosodi-n-propylamine	ND	0.25	1	03/14/2018 00:29
Pentachlorophenol	ND	1.3	1	03/14/2018 00:29
Phenanthrene	ND	0.25	1	03/14/2018 00:29
Phenol	ND	0.25	1	03/14/2018 00:29
Pyrene	ND	0.25	1	03/14/2018 00:29
Pyridine	ND	0.25	1	03/14/2018 00:29
1,2,4-Trichlorobenzene	ND	0.25	1	03/14/2018 00:29
2,4,5-Trichlorophenol	ND	0.25	1	03/14/2018 00:29
2,4,6-Trichlorophenol	ND	0.25	1	03/14/2018 00:29

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC17 03131833.D	154535

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	114	30-130		03/14/2018 00:29
Phenol-d5	107	30-130		03/14/2018 00:29
Nitrobenzene-d5	108	30-130		03/14/2018 00:29
2-Fluorobiphenyl	87	30-130		03/14/2018 00:29
2,4,6-Tribromophenol	72	16-130		03/14/2018 00:29
4-Terphenyl-d14	109	30-130		03/14/2018 00:29

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC17 03131830.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.0	1	03/13/2018 23:08
Acenaphthylene	ND	2.0	1	03/13/2018 23:08
Acetochlor	ND	2.0	1	03/13/2018 23:08
Anthracene	ND	2.0	1	03/13/2018 23:08
Benzidine	ND	10	1	03/13/2018 23:08
Benzo (a) anthracene	ND	2.0	1	03/13/2018 23:08
Benzo (a) pyrene	ND	2.0	1	03/13/2018 23:08
Benzo (b) fluoranthene	ND	2.0	1	03/13/2018 23:08
Benzo (g,h,i) perylene	ND	2.0	1	03/13/2018 23:08
Benzo (k) fluoranthene	ND	2.0	1	03/13/2018 23:08
Benzyl Alcohol	ND	10	1	03/13/2018 23:08
1,1-Biphenyl	ND	2.0	1	03/13/2018 23:08
Bis (2-chloroethoxy) Methane	ND	2.0	1	03/13/2018 23:08
Bis (2-chloroethyl) Ether	ND	2.0	1	03/13/2018 23:08
Bis (2-chloroisopropyl) Ether	ND	2.0	1	03/13/2018 23:08
Bis (2-ethylhexyl) Adipate	ND	2.0	1	03/13/2018 23:08
Bis (2-ethylhexyl) Phthalate	ND	2.0	1	03/13/2018 23:08
4-Bromophenyl Phenyl Ether	ND	2.0	1	03/13/2018 23:08
Butylbenzyl Phthalate	ND	2.0	1	03/13/2018 23:08
4-Chloroaniline	ND	4.0	1	03/13/2018 23:08
4-Chloro-3-methylphenol	ND	2.0	1	03/13/2018 23:08
2-Chloronaphthalene	ND	2.0	1	03/13/2018 23:08
2-Chlorophenol	ND	2.0	1	03/13/2018 23:08
4-Chlorophenyl Phenyl Ether	ND	2.0	1	03/13/2018 23:08
Chrysene	ND	2.0	1	03/13/2018 23:08
Dibenzo (a,h) anthracene	ND	2.0	1	03/13/2018 23:08
Dibenzofuran	ND	2.0	1	03/13/2018 23:08
Di-n-butyl Phthalate	ND	2.0	1	03/13/2018 23:08
1,2-Dichlorobenzene	ND	2.0	1	03/13/2018 23:08
1,3-Dichlorobenzene	ND	2.0	1	03/13/2018 23:08
1,4-Dichlorobenzene	ND	2.0	1	03/13/2018 23:08
3,3-Dichlorobenzidine	ND	4.0	1	03/13/2018 23:08
2,4-Dichlorophenol	ND	2.0	1	03/13/2018 23:08
Diethyl Phthalate	ND	2.0	1	03/13/2018 23:08
2,4-Dimethylphenol	ND	2.0	1	03/13/2018 23:08
Dimethyl Phthalate	ND	2.0	1	03/13/2018 23:08
4,6-Dinitro-2-methylphenol	ND	10	1	03/13/2018 23:08

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC17 03131830.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	50	1	03/13/2018 23:08
2,4-Dinitrotoluene	ND	2.0	1	03/13/2018 23:08
2,6-Dinitrotoluene	ND	2.0	1	03/13/2018 23:08
Di-n-octyl Phthalate	ND	4.0	1	03/13/2018 23:08
1,2-Diphenylhydrazine	ND	2.0	1	03/13/2018 23:08
Fluoranthene	ND	2.0	1	03/13/2018 23:08
Fluorene	ND	2.0	1	03/13/2018 23:08
Hexachlorobenzene	ND	2.0	1	03/13/2018 23:08
Hexachlorobutadiene	ND	2.0	1	03/13/2018 23:08
Hexachlorocyclopentadiene	ND	10	1	03/13/2018 23:08
Hexachloroethane	ND	2.0	1	03/13/2018 23:08
Indeno (1,2,3-cd) pyrene	ND	2.0	1	03/13/2018 23:08
Isophorone	ND	2.0	1	03/13/2018 23:08
2-Methylnaphthalene	ND	2.0	1	03/13/2018 23:08
2-Methylphenol (o-Cresol)	ND	2.0	1	03/13/2018 23:08
3 & 4-Methylphenol (m,p-Cresol)	ND	2.0	1	03/13/2018 23:08
Naphthalene	ND	2.0	1	03/13/2018 23:08
2-Nitroaniline	ND	10	1	03/13/2018 23:08
3-Nitroaniline	ND	10	1	03/13/2018 23:08
4-Nitroaniline	ND	10	1	03/13/2018 23:08
Nitrobenzene	ND	2.0	1	03/13/2018 23:08
2-Nitrophenol	ND	10	1	03/13/2018 23:08
4-Nitrophenol	ND	10	1	03/13/2018 23:08
N-Nitrosodiphenylamine	ND	2.0	1	03/13/2018 23:08
N-Nitrosodi-n-propylamine	ND	2.0	1	03/13/2018 23:08
Pentachlorophenol	ND	10	1	03/13/2018 23:08
Phenanthrene	ND	2.0	1	03/13/2018 23:08
Phenol	ND	2.0	1	03/13/2018 23:08
Pyrene	ND	2.0	1	03/13/2018 23:08
Pyridine	ND	2.0	1	03/13/2018 23:08
1,2,4-Trichlorobenzene	ND	2.0	1	03/13/2018 23:08
2,4,5-Trichlorophenol	ND	2.0	1	03/13/2018 23:08
2,4,6-Trichlorophenol	ND	2.0	1	03/13/2018 23:08

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC17 03131830.D	154535

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	99	30-130		03/13/2018 23:08
Phenol-d5	74	30-130		03/13/2018 23:08
Nitrobenzene-d5	87	30-130		03/13/2018 23:08
2-Fluorobiphenyl	78	30-130		03/13/2018 23:08
2,4,6-Tribromophenol	42	16-130		03/13/2018 23:08
4-Terphenyl-d14	86	30-130		03/13/2018 23:08

Analyst(s): REB

Analytical Comments: a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC17 03131834.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	03/14/2018 00:56
Acenaphthylene	ND	0.25	1	03/14/2018 00:56
Acetochlor	ND	0.25	1	03/14/2018 00:56
Anthracene	ND	0.25	1	03/14/2018 00:56
Benzidine	ND	1.3	1	03/14/2018 00:56
Benzo (a) anthracene	ND	0.25	1	03/14/2018 00:56
Benzo (a) pyrene	ND	0.25	1	03/14/2018 00:56
Benzo (b) fluoranthene	ND	0.25	1	03/14/2018 00:56
Benzo (g,h,i) perylene	ND	0.25	1	03/14/2018 00:56
Benzo (k) fluoranthene	ND	0.25	1	03/14/2018 00:56
Benzyl Alcohol	ND	1.3	1	03/14/2018 00:56
1,1-Biphenyl	ND	0.25	1	03/14/2018 00:56
Bis (2-chloroethoxy) Methane	ND	0.25	1	03/14/2018 00:56
Bis (2-chloroethyl) Ether	ND	0.25	1	03/14/2018 00:56
Bis (2-chloroisopropyl) Ether	ND	0.25	1	03/14/2018 00:56
Bis (2-ethylhexyl) Adipate	ND	0.25	1	03/14/2018 00:56
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	03/14/2018 00:56
4-Bromophenyl Phenyl Ether	ND	0.25	1	03/14/2018 00:56
Butylbenzyl Phthalate	ND	0.25	1	03/14/2018 00:56
4-Chloroaniline	ND	0.50	1	03/14/2018 00:56
4-Chloro-3-methylphenol	ND	0.25	1	03/14/2018 00:56
2-Chloronaphthalene	ND	0.25	1	03/14/2018 00:56
2-Chlorophenol	ND	0.25	1	03/14/2018 00:56
4-Chlorophenyl Phenyl Ether	ND	0.25	1	03/14/2018 00:56
Chrysene	ND	0.25	1	03/14/2018 00:56
Dibenzo (a,h) anthracene	ND	0.25	1	03/14/2018 00:56
Dibenzofuran	ND	0.25	1	03/14/2018 00:56
Di-n-butyl Phthalate	ND	0.25	1	03/14/2018 00:56
1,2-Dichlorobenzene	ND	0.25	1	03/14/2018 00:56
1,3-Dichlorobenzene	ND	0.25	1	03/14/2018 00:56
1,4-Dichlorobenzene	ND	0.25	1	03/14/2018 00:56
3,3-Dichlorobenzidine	ND	0.50	1	03/14/2018 00:56
2,4-Dichlorophenol	ND	0.25	1	03/14/2018 00:56
Diethyl Phthalate	ND	0.25	1	03/14/2018 00:56
2,4-Dimethylphenol	ND	0.25	1	03/14/2018 00:56
Dimethyl Phthalate	ND	0.25	1	03/14/2018 00:56
4,6-Dinitro-2-methylphenol	ND	1.3	1	03/14/2018 00:56

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC17 03131834.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	03/14/2018 00:56
2,4-Dinitrotoluene	ND	0.25	1	03/14/2018 00:56
2,6-Dinitrotoluene	ND	0.25	1	03/14/2018 00:56
Di-n-octyl Phthalate	ND	0.50	1	03/14/2018 00:56
1,2-Diphenylhydrazine	ND	0.25	1	03/14/2018 00:56
Fluoranthene	ND	0.25	1	03/14/2018 00:56
Fluorene	ND	0.25	1	03/14/2018 00:56
Hexachlorobenzene	ND	0.25	1	03/14/2018 00:56
Hexachlorobutadiene	ND	0.25	1	03/14/2018 00:56
Hexachlorocyclopentadiene	ND	1.3	1	03/14/2018 00:56
Hexachloroethane	ND	0.25	1	03/14/2018 00:56
Indeno (1,2,3-cd) pyrene	ND	0.25	1	03/14/2018 00:56
Isophorone	ND	0.25	1	03/14/2018 00:56
2-Methylnaphthalene	ND	0.25	1	03/14/2018 00:56
2-Methylphenol (o-Cresol)	ND	0.25	1	03/14/2018 00:56
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	03/14/2018 00:56
Naphthalene	ND	0.25	1	03/14/2018 00:56
2-Nitroaniline	ND	1.3	1	03/14/2018 00:56
3-Nitroaniline	ND	1.3	1	03/14/2018 00:56
4-Nitroaniline	ND	1.3	1	03/14/2018 00:56
Nitrobenzene	ND	0.25	1	03/14/2018 00:56
2-Nitrophenol	ND	1.3	1	03/14/2018 00:56
4-Nitrophenol	ND	1.3	1	03/14/2018 00:56
N-Nitrosodiphenylamine	ND	0.25	1	03/14/2018 00:56
N-Nitrosodi-n-propylamine	ND	0.25	1	03/14/2018 00:56
Pentachlorophenol	ND	1.3	1	03/14/2018 00:56
Phenanthrene	ND	0.25	1	03/14/2018 00:56
Phenol	ND	0.25	1	03/14/2018 00:56
Pyrene	ND	0.25	1	03/14/2018 00:56
Pyridine	ND	0.25	1	03/14/2018 00:56
1,2,4-Trichlorobenzene	ND	0.25	1	03/14/2018 00:56
2,4,5-Trichlorophenol	ND	0.25	1	03/14/2018 00:56
2,4,6-Trichlorophenol	ND	0.25	1	03/14/2018 00:56

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC17 03131834.D	154535

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	98	30-130		03/14/2018 00:56
Phenol-d5	89	30-130		03/14/2018 00:56
Nitrobenzene-d5	92	30-130		03/14/2018 00:56
2-Fluorobiphenyl	76	30-130		03/14/2018 00:56
2,4,6-Tribromophenol	74	16-130		03/14/2018 00:56
4-Terphenyl-d14	91	30-130		03/14/2018 00:56

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC17 03131831.D	154535

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.0	1	03/13/2018 23:35
Acenaphthylene	ND	2.0	1	03/13/2018 23:35
Acetochlor	ND	2.0	1	03/13/2018 23:35
Anthracene	ND	2.0	1	03/13/2018 23:35
Benzidine	ND	10	1	03/13/2018 23:35
Benzo (a) anthracene	ND	2.0	1	03/13/2018 23:35
Benzo (a) pyrene	ND	2.0	1	03/13/2018 23:35
Benzo (b) fluoranthene	ND	2.0	1	03/13/2018 23:35
Benzo (g,h,i) perylene	ND	2.0	1	03/13/2018 23:35
Benzo (k) fluoranthene	ND	2.0	1	03/13/2018 23:35
Benzyl Alcohol	ND	10	1	03/13/2018 23:35
1,1-Biphenyl	ND	2.0	1	03/13/2018 23:35
Bis (2-chloroethoxy) Methane	ND	2.0	1	03/13/2018 23:35
Bis (2-chloroethyl) Ether	ND	2.0	1	03/13/2018 23:35
Bis (2-chloroisopropyl) Ether	ND	2.0	1	03/13/2018 23:35
Bis (2-ethylhexyl) Adipate	ND	2.0	1	03/13/2018 23:35
Bis (2-ethylhexyl) Phthalate	ND	2.0	1	03/13/2018 23:35
4-Bromophenyl Phenyl Ether	ND	2.0	1	03/13/2018 23:35
Butylbenzyl Phthalate	ND	2.0	1	03/13/2018 23:35
4-Chloroaniline	ND	4.0	1	03/13/2018 23:35
4-Chloro-3-methylphenol	ND	2.0	1	03/13/2018 23:35
2-Chloronaphthalene	ND	2.0	1	03/13/2018 23:35
2-Chlorophenol	ND	2.0	1	03/13/2018 23:35
4-Chlorophenyl Phenyl Ether	ND	2.0	1	03/13/2018 23:35
Chrysene	ND	2.0	1	03/13/2018 23:35
Dibenzo (a,h) anthracene	ND	2.0	1	03/13/2018 23:35
Dibenzofuran	ND	2.0	1	03/13/2018 23:35
Di-n-butyl Phthalate	ND	2.0	1	03/13/2018 23:35
1,2-Dichlorobenzene	ND	2.0	1	03/13/2018 23:35
1,3-Dichlorobenzene	ND	2.0	1	03/13/2018 23:35
1,4-Dichlorobenzene	ND	2.0	1	03/13/2018 23:35
3,3-Dichlorobenzidine	ND	4.0	1	03/13/2018 23:35
2,4-Dichlorophenol	ND	2.0	1	03/13/2018 23:35
Diethyl Phthalate	ND	2.0	1	03/13/2018 23:35
2,4-Dimethylphenol	ND	2.0	1	03/13/2018 23:35
Dimethyl Phthalate	ND	2.0	1	03/13/2018 23:35
4,6-Dinitro-2-methylphenol	ND	10	1	03/13/2018 23:35

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC17 03131831.D	154535

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	50	1	03/13/2018 23:35
2,4-Dinitrotoluene	ND	2.0	1	03/13/2018 23:35
2,6-Dinitrotoluene	ND	2.0	1	03/13/2018 23:35
Di-n-octyl Phthalate	ND	4.0	1	03/13/2018 23:35
1,2-Diphenylhydrazine	ND	2.0	1	03/13/2018 23:35
Fluoranthene	ND	2.0	1	03/13/2018 23:35
Fluorene	ND	2.0	1	03/13/2018 23:35
Hexachlorobenzene	ND	2.0	1	03/13/2018 23:35
Hexachlorobutadiene	ND	2.0	1	03/13/2018 23:35
Hexachlorocyclopentadiene	ND	10	1	03/13/2018 23:35
Hexachloroethane	ND	2.0	1	03/13/2018 23:35
Indeno (1,2,3-cd) pyrene	ND	2.0	1	03/13/2018 23:35
Isophorone	ND	2.0	1	03/13/2018 23:35
2-Methylnaphthalene	ND	2.0	1	03/13/2018 23:35
2-Methylphenol (o-Cresol)	ND	2.0	1	03/13/2018 23:35
3 & 4-Methylphenol (m,p-Cresol)	ND	2.0	1	03/13/2018 23:35
Naphthalene	ND	2.0	1	03/13/2018 23:35
2-Nitroaniline	ND	10	1	03/13/2018 23:35
3-Nitroaniline	ND	10	1	03/13/2018 23:35
4-Nitroaniline	ND	10	1	03/13/2018 23:35
Nitrobenzene	ND	2.0	1	03/13/2018 23:35
2-Nitrophenol	ND	10	1	03/13/2018 23:35
4-Nitrophenol	ND	10	1	03/13/2018 23:35
N-Nitrosodiphenylamine	ND	2.0	1	03/13/2018 23:35
N-Nitrosodi-n-propylamine	ND	2.0	1	03/13/2018 23:35
Pentachlorophenol	ND	10	1	03/13/2018 23:35
Phenanthrene	ND	2.0	1	03/13/2018 23:35
Phenol	ND	2.0	1	03/13/2018 23:35
Pyrene	ND	2.0	1	03/13/2018 23:35
Pyridine	ND	2.0	1	03/13/2018 23:35
1,2,4-Trichlorobenzene	ND	2.0	1	03/13/2018 23:35
2,4,5-Trichlorophenol	ND	2.0	1	03/13/2018 23:35
2,4,6-Trichlorophenol	ND	2.0	1	03/13/2018 23:35

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC17 03131831.D	154535

Analytes	Result	RL	DF	Date Analyzed
----------	--------	----	----	---------------

Surrogates	REC (%)	Limits	
2-Fluorophenol	101	30-130	03/13/2018 23:35
Phenol-d5	73	30-130	03/13/2018 23:35
Nitrobenzene-d5	84	30-130	03/13/2018 23:35
2-Fluorobiphenyl	74	30-130	03/13/2018 23:35
2,4,6-Tribromophenol	69	16-130	03/13/2018 23:35
4-Terphenyl-d14	87	30-130	03/13/2018 23:35

Analyst(s): REB

Analytical Comments: a4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC17 03131822.D	154636

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	03/13/2018 19:31
Acenaphthylene	ND	0.25	1	03/13/2018 19:31
Acetochlor	ND	0.25	1	03/13/2018 19:31
Anthracene	ND	0.25	1	03/13/2018 19:31
Benzidine	ND	1.3	1	03/13/2018 19:31
Benzo (a) anthracene	ND	0.25	1	03/13/2018 19:31
Benzo (a) pyrene	ND	0.25	1	03/13/2018 19:31
Benzo (b) fluoranthene	ND	0.25	1	03/13/2018 19:31
Benzo (g,h,i) perylene	ND	0.25	1	03/13/2018 19:31
Benzo (k) fluoranthene	ND	0.25	1	03/13/2018 19:31
Benzyl Alcohol	ND	1.3	1	03/13/2018 19:31
1,1-Biphenyl	ND	0.25	1	03/13/2018 19:31
Bis (2-chloroethoxy) Methane	ND	0.25	1	03/13/2018 19:31
Bis (2-chloroethyl) Ether	ND	0.25	1	03/13/2018 19:31
Bis (2-chloroisopropyl) Ether	ND	0.25	1	03/13/2018 19:31
Bis (2-ethylhexyl) Adipate	ND	0.25	1	03/13/2018 19:31
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	03/13/2018 19:31
4-Bromophenyl Phenyl Ether	ND	0.25	1	03/13/2018 19:31
Butylbenzyl Phthalate	ND	0.25	1	03/13/2018 19:31
4-Chloroaniline	ND	0.50	1	03/13/2018 19:31
4-Chloro-3-methylphenol	ND	0.25	1	03/13/2018 19:31
2-Chloronaphthalene	ND	0.25	1	03/13/2018 19:31
2-Chlorophenol	ND	0.25	1	03/13/2018 19:31
4-Chlorophenyl Phenyl Ether	ND	0.25	1	03/13/2018 19:31
Chrysene	ND	0.25	1	03/13/2018 19:31
Dibenzo (a,h) anthracene	ND	0.25	1	03/13/2018 19:31
Dibenzofuran	ND	0.25	1	03/13/2018 19:31
Di-n-butyl Phthalate	ND	0.25	1	03/13/2018 19:31
1,2-Dichlorobenzene	ND	0.25	1	03/13/2018 19:31
1,3-Dichlorobenzene	ND	0.25	1	03/13/2018 19:31
1,4-Dichlorobenzene	ND	0.25	1	03/13/2018 19:31
3,3-Dichlorobenzidine	ND	0.50	1	03/13/2018 19:31
2,4-Dichlorophenol	ND	0.25	1	03/13/2018 19:31
Diethyl Phthalate	ND	0.25	1	03/13/2018 19:31
2,4-Dimethylphenol	ND	0.25	1	03/13/2018 19:31
Dimethyl Phthalate	ND	0.25	1	03/13/2018 19:31
4,6-Dinitro-2-methylphenol	ND	1.3	1	03/13/2018 19:31

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC17 03131822.D	154636

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	03/13/2018 19:31
2,4-Dinitrotoluene	ND	0.25	1	03/13/2018 19:31
2,6-Dinitrotoluene	ND	0.25	1	03/13/2018 19:31
Di-n-octyl Phthalate	ND	0.50	1	03/13/2018 19:31
1,2-Diphenylhydrazine	ND	0.25	1	03/13/2018 19:31
Fluoranthene	ND	0.25	1	03/13/2018 19:31
Fluorene	ND	0.25	1	03/13/2018 19:31
Hexachlorobenzene	ND	0.25	1	03/13/2018 19:31
Hexachlorobutadiene	ND	0.25	1	03/13/2018 19:31
Hexachlorocyclopentadiene	ND	1.3	1	03/13/2018 19:31
Hexachloroethane	ND	0.25	1	03/13/2018 19:31
Indeno (1,2,3-cd) pyrene	ND	0.25	1	03/13/2018 19:31
Isophorone	ND	0.25	1	03/13/2018 19:31
2-Methylnaphthalene	ND	0.25	1	03/13/2018 19:31
2-Methylphenol (o-Cresol)	ND	0.25	1	03/13/2018 19:31
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	03/13/2018 19:31
Naphthalene	ND	0.25	1	03/13/2018 19:31
2-Nitroaniline	ND	1.3	1	03/13/2018 19:31
3-Nitroaniline	ND	1.3	1	03/13/2018 19:31
4-Nitroaniline	ND	1.3	1	03/13/2018 19:31
Nitrobenzene	ND	0.25	1	03/13/2018 19:31
2-Nitrophenol	ND	1.3	1	03/13/2018 19:31
4-Nitrophenol	ND	1.3	1	03/13/2018 19:31
N-Nitrosodiphenylamine	ND	0.25	1	03/13/2018 19:31
N-Nitrosodi-n-propylamine	ND	0.25	1	03/13/2018 19:31
Pentachlorophenol	ND	1.3	1	03/13/2018 19:31
Phenanthrene	ND	0.25	1	03/13/2018 19:31
Phenol	ND	0.25	1	03/13/2018 19:31
Pyrene	ND	0.25	1	03/13/2018 19:31
Pyridine	ND	0.25	1	03/13/2018 19:31
1,2,4-Trichlorobenzene	ND	0.25	1	03/13/2018 19:31
2,4,5-Trichlorophenol	ND	0.25	1	03/13/2018 19:31
2,4,6-Trichlorophenol	ND	0.25	1	03/13/2018 19:31

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/12/18-3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC17 03131822.D	154636

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
2-Fluorophenol	99		30-130	03/13/2018 19:31
Phenol-d5	91		30-130	03/13/2018 19:31
Nitrobenzene-d5	94		30-130	03/13/2018 19:31
2-Fluorobiphenyl	79		30-130	03/13/2018 19:31
2,4,6-Tribromophenol	66		16-130	03/13/2018 19:31
4-Terphenyl-d14	91		30-130	03/13/2018 19:31

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	ICP-MS3 192SMPL.D	154486

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	03/14/2018 04:00
Arsenic	6.9	0.50	1	03/14/2018 04:00
Barium	110	5.0	1	03/14/2018 04:00
Beryllium	ND	0.50	1	03/14/2018 04:00
Cadmium	ND	0.25	1	03/14/2018 04:00
Chromium	43	0.50	1	03/14/2018 04:00
Cobalt	12	0.50	1	03/14/2018 04:00
Copper	43	0.50	1	03/14/2018 04:00
Lead	8.7	0.50	1	03/14/2018 04:00
Mercury	0.19	0.050	1	03/14/2018 04:00
Molybdenum	0.68	0.50	1	03/14/2018 04:00
Nickel	39	0.50	1	03/14/2018 04:00
Selenium	ND	0.50	1	03/14/2018 04:00
Silver	ND	0.50	1	03/14/2018 04:00
Thallium	ND	0.50	1	03/14/2018 04:00
Vanadium	71	0.50	1	03/14/2018 04:00
Zinc	58	5.0	1	03/14/2018 04:00

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	92	70-130	03/14/2018 04:00

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	ICP-MS3 193SMPL.D	154486

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	03/14/2018 04:06
Arsenic	4.5	0.50	1	03/14/2018 04:06
Barium	130	5.0	1	03/14/2018 04:06
Beryllium	ND	0.50	1	03/14/2018 04:06
Cadmium	ND	0.25	1	03/14/2018 04:06
Chromium	56	0.50	1	03/14/2018 04:06
Cobalt	17	0.50	1	03/14/2018 04:06
Copper	43	0.50	1	03/14/2018 04:06
Lead	4.1	0.50	1	03/14/2018 04:06
Mercury	ND	0.050	1	03/14/2018 04:06
Molybdenum	0.55	0.50	1	03/14/2018 04:06
Nickel	57	0.50	1	03/14/2018 04:06
Selenium	ND	0.50	1	03/14/2018 04:06
Silver	ND	0.50	1	03/14/2018 04:06
Thallium	ND	0.50	1	03/14/2018 04:06
Vanadium	62	0.50	1	03/14/2018 04:06
Zinc	55	5.0	1	03/14/2018 04:06

Surrogates	REC (%)	Limits	
Terbium	97	70-130	03/14/2018 04:06

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	ICP-MS3 194SMPL.D	154486

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	03/14/2018 04:13
Arsenic	4.6	0.50	1	03/14/2018 04:13
Barium	100	5.0	1	03/14/2018 04:13
Beryllium	ND	0.50	1	03/14/2018 04:13
Cadmium	ND	0.25	1	03/14/2018 04:13
Chromium	39	0.50	1	03/14/2018 04:13
Cobalt	9.7	0.50	1	03/14/2018 04:13
Copper	27	0.50	1	03/14/2018 04:13
Lead	7.3	0.50	1	03/14/2018 04:13
Mercury	0.099	0.050	1	03/14/2018 04:13
Molybdenum	0.66	0.50	1	03/14/2018 04:13
Nickel	39	0.50	1	03/14/2018 04:13
Selenium	ND	0.50	1	03/14/2018 04:13
Silver	ND	0.50	1	03/14/2018 04:13
Thallium	ND	0.50	1	03/14/2018 04:13
Vanadium	44	0.50	1	03/14/2018 04:13
Zinc	40	5.0	1	03/14/2018 04:13

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	91	70-130	03/14/2018 04:13

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	ICP-MS2 290SMPL.D	154486

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	03/13/2018 20:32
Arsenic	4.1	0.50	1	03/13/2018 20:32
Barium	98	5.0	1	03/13/2018 20:32
Beryllium	ND	0.50	1	03/13/2018 20:32
Cadmium	ND	0.25	1	03/13/2018 20:32
Chromium	50	0.50	1	03/13/2018 20:32
Cobalt	14	0.50	1	03/13/2018 20:32
Copper	39	0.50	1	03/13/2018 20:32
Lead	10	0.50	1	03/13/2018 20:32
Mercury	0.051	0.050	1	03/13/2018 20:32
Molybdenum	ND	0.50	1	03/13/2018 20:32
Nickel	40	0.50	1	03/13/2018 20:32
Selenium	ND	0.50	1	03/13/2018 20:32
Silver	ND	0.50	1	03/13/2018 20:32
Thallium	ND	0.50	1	03/13/2018 20:32
Vanadium	54	0.50	1	03/13/2018 20:32
Zinc	54	5.0	1	03/13/2018 20:32

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	98	70-130	03/13/2018 20:32

Analyst(s): JC



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	ICP-MS2 291SMPL.D	154486

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.59	0.50	1	03/13/2018 20:38
Arsenic	7.2	0.50	1	03/13/2018 20:38
Barium	170	5.0	1	03/13/2018 20:38
Beryllium	ND	0.50	1	03/13/2018 20:38
Cadmium	0.32	0.25	1	03/13/2018 20:38
Chromium	43	0.50	1	03/13/2018 20:38
Cobalt	10	0.50	1	03/13/2018 20:38
Copper	33	0.50	1	03/13/2018 20:38
Lead	26	0.50	1	03/13/2018 20:38
Mercury	0.073	0.050	1	03/13/2018 20:38
Molybdenum	ND	0.50	1	03/13/2018 20:38
Nickel	47	0.50	1	03/13/2018 20:38
Selenium	ND	0.50	1	03/13/2018 20:38
Silver	ND	0.50	1	03/13/2018 20:38
Thallium	ND	0.50	1	03/13/2018 20:38
Vanadium	41	0.50	1	03/13/2018 20:38
Zinc	66	5.0	1	03/13/2018 20:38

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	96	70-130	03/13/2018 20:38

Analyst(s): JC



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	ICP-MS2 292SMPL.D	154490

Analytes	Result	RL	DF	Date Analyzed
Antimony	3.0	0.50	1	03/13/2018 20:44
Arsenic	5.0	0.50	1	03/13/2018 20:44
Barium	150	5.0	1	03/13/2018 20:44
Beryllium	ND	0.50	1	03/13/2018 20:44
Cadmium	0.27	0.25	1	03/13/2018 20:44
Chromium	40	0.50	1	03/13/2018 20:44
Cobalt	9.0	0.50	1	03/13/2018 20:44
Copper	29	0.50	1	03/13/2018 20:44
Lead	27	0.50	1	03/13/2018 20:44
Mercury	0.072	0.050	1	03/13/2018 20:44
Molybdenum	ND	0.50	1	03/13/2018 20:44
Nickel	39	0.50	1	03/13/2018 20:44
Selenium	ND	0.50	1	03/13/2018 20:44
Silver	ND	0.50	1	03/13/2018 20:44
Thallium	ND	0.50	1	03/13/2018 20:44
Vanadium	34	0.50	1	03/13/2018 20:44
Zinc	75	5.0	1	03/13/2018 20:44

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	91	70-130	03/13/2018 20:44

Analyst(s): JC



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	ICP-MS3 187SMPL.D	154490

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.54	0.50	1	03/14/2018 03:29
Arsenic	6.0	0.50	1	03/14/2018 03:29
Barium	170	5.0	1	03/14/2018 03:29
Beryllium	ND	0.50	1	03/14/2018 03:29
Cadmium	0.33	0.25	1	03/14/2018 03:29
Chromium	46	0.50	1	03/14/2018 03:29
Cobalt	11	0.50	1	03/14/2018 03:29
Copper	37	0.50	1	03/14/2018 03:29
Lead	23	0.50	1	03/14/2018 03:29
Mercury	ND	0.050	1	03/14/2018 03:29
Molybdenum	ND	0.50	1	03/14/2018 03:29
Nickel	47	0.50	1	03/14/2018 03:29
Selenium	ND	0.50	1	03/14/2018 03:29
Silver	ND	0.50	1	03/14/2018 03:29
Thallium	ND	0.50	1	03/14/2018 03:29
Vanadium	42	0.50	1	03/14/2018 03:29
Zinc	52	5.0	1	03/14/2018 03:29

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	102	70-130	03/14/2018 03:29

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	ICP-MS3 117SMPL.D	154490

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.57	0.50	1	03/13/2018 02:26
Arsenic	4.4	0.50	1	03/13/2018 02:26
Barium	170	5.0	1	03/13/2018 02:26
Beryllium	ND	0.50	1	03/13/2018 02:26
Cadmium	ND	0.25	1	03/13/2018 02:26
Chromium	39	0.50	1	03/13/2018 02:26
Cobalt	9.0	0.50	1	03/13/2018 02:26
Copper	23	0.50	1	03/13/2018 02:26
Lead	18	0.50	1	03/13/2018 02:26
Mercury	ND	0.050	1	03/13/2018 02:26
Molybdenum	ND	0.50	1	03/13/2018 02:26
Nickel	41	0.50	1	03/13/2018 02:26
Selenium	ND	0.50	1	03/13/2018 02:26
Silver	ND	0.50	1	03/13/2018 02:26
Thallium	ND	0.50	1	03/13/2018 02:26
Vanadium	35	0.50	1	03/13/2018 02:26
Zinc	43	5.0	1	03/13/2018 02:26

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	96	70-130	03/13/2018 02:26

Analyst(s): JC



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	ICP-MS3 191SMPL.D	154490

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.81	0.50	1	03/14/2018 03:54
Arsenic	4.5	0.50	1	03/14/2018 03:54
Barium	69	5.0	1	03/14/2018 03:54
Beryllium	ND	0.50	1	03/14/2018 03:54
Cadmium	0.85	0.25	1	03/14/2018 03:54
Chromium	69	0.50	1	03/14/2018 03:54
Cobalt	16	0.50	1	03/14/2018 03:54
Copper	59	0.50	1	03/14/2018 03:54
Lead	110	0.50	1	03/14/2018 03:54
Mercury	0.067	0.050	1	03/14/2018 03:54
Molybdenum	ND	0.50	1	03/14/2018 03:54
Nickel	52	0.50	1	03/14/2018 03:54
Selenium	ND	0.50	1	03/14/2018 03:54
Silver	ND	0.50	1	03/14/2018 03:54
Thallium	ND	0.50	1	03/14/2018 03:54
Vanadium	50	0.50	1	03/14/2018 03:54
Zinc	62	5.0	1	03/14/2018 03:54

Surrogates	REC (%)	Limits	
Terbium	94	70-130	03/14/2018 03:54

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	ICP-MS3 094SMPL.D	154490

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.73	0.50	1	03/13/2018 00:03
Arsenic	7.3	0.50	1	03/13/2018 00:03
Barium	150	5.0	1	03/13/2018 00:03
Beryllium	ND	0.50	1	03/13/2018 00:03
Cadmium	0.40	0.25	1	03/13/2018 00:03
Chromium	42	0.50	1	03/13/2018 00:03
Cobalt	9.8	0.50	1	03/13/2018 00:03
Copper	35	0.50	1	03/13/2018 00:03
Lead	28	0.50	1	03/13/2018 00:03
Mercury	0.16	0.050	1	03/13/2018 00:03
Molybdenum	ND	0.50	1	03/13/2018 00:03
Nickel	38	0.50	1	03/13/2018 00:03
Selenium	ND	0.50	1	03/13/2018 00:03
Silver	ND	0.50	1	03/13/2018 00:03
Thallium	ND	0.50	1	03/13/2018 00:03
Vanadium	44	0.50	1	03/13/2018 00:03
Zinc	72	5.0	1	03/13/2018 00:03

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	101	70-130	03/13/2018 00:03

Analyst(s): JC



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC11B 03141845.D	154434
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	38		20	20	03/15/2018 04:32
TPH-Motor Oil (C18-C36)	990		100	20	03/15/2018 04:32
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	91		74-123		03/15/2018 04:32
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e7,e2		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC9a 03141850.D	154434
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	03/15/2018 06:17
TPH-Motor Oil (C18-C36)	7.4		5.0	1	03/15/2018 06:17
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	103		74-123		03/15/2018 06:17
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e7		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC6A 03151882.D	154434
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	5.5		2.0	2	03/16/2018 11:29
TPH-Motor Oil (C18-C36)	150		10	2	03/16/2018 11:29
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	104		74-123		03/16/2018 11:29
<u>Analyst(s):</u> JIS			<u>Analytical Comments:</u> e7,e2		

(Cont.)

NELAP 4033ORELAP



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC9a 03141858.D	154434

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1.0	1.0	1	03/15/2018 08:52
TPH-Motor Oil (C18-C36)	43	5.0	1	03/15/2018 08:52

Surrogates	REC (%)	Limits	Date Analyzed
C9	98	74-123	03/15/2018 08:52

Analyst(s): JIS

Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC9a 03151810.D	154489

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	03/15/2018 14:13
TPH-Motor Oil (C18-C36)	ND	5.0	1	03/15/2018 14:13

Surrogates	REC (%)	Limits	Date Analyzed
C9	100	74-123	03/15/2018 14:13

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC9b 03141809.D	154489

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	03/14/2018 17:21
TPH-Motor Oil (C18-C36)	ND	5.0	1	03/14/2018 17:21

Surrogates	REC (%)	Limits	Date Analyzed
C9	91	74-123	03/14/2018 17:21

Analyst(s): JIS

(Cont.)

NELAP 4033ORELAP



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC9a 03141830.D	154489

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	03/14/2018 23:49
TPH-Motor Oil (C18-C36)	ND	5.0	1	03/14/2018 23:49

Surrogates	REC (%)	Limits
C9	102	74-123

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC9a 03141846.D	154489

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	03/15/2018 04:59
TPH-Motor Oil (C18-C36)	ND	5.0	1	03/15/2018 04:59

Surrogates	REC (%)	Limits
C9	105	74-123

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC9b 03151809.D	154489

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	03/15/2018 14:13
TPH-Motor Oil (C18-C36)	8.6	5.0	1	03/15/2018 14:13

Surrogates	REC (%)	Limits
C9	89	74-123

Analyst(s): JIS

Analytical Comments: e7

(Cont.)

NELAP 4033ORELAP



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/9/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC9a 03131864.D	154489

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	03/14/2018 05:53
TPH-Motor Oil (C18-C36)	ND	5.0	1	03/14/2018 05:53

Surrogates	REC (%)	Limits
C9	103	74-123

Analyst(s): JIS



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/12/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154535
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-154535

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.25	-	-	-
Acenaphthylene	ND	0.25	-	-	-
Acetochlor	ND	0.25	-	-	-
Anthracene	ND	0.25	-	-	-
Benzidine	ND	1.3	-	-	-
Benzo (a) anthracene	ND	0.25	-	-	-
Benzo (a) pyrene	ND	0.25	-	-	-
Benzo (b) fluoranthene	ND	0.25	-	-	-
Benzo (g,h,i) perylene	ND	0.25	-	-	-
Benzo (k) fluoranthene	ND	0.25	-	-	-
Benzyl Alcohol	ND	1.3	-	-	-
1,1-Biphenyl	ND	0.25	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.25	-	-	-
Bis (2-chloroethyl) Ether	ND	0.25	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.25	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.25	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.25	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.25	-	-	-
Butylbenzyl Phthalate	ND	0.25	-	-	-
4-Chloroaniline	ND	0.50	-	-	-
4-Chloro-3-methylphenol	ND	0.25	-	-	-
2-Chloronaphthalene	ND	0.25	-	-	-
2-Chlorophenol	ND	0.25	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.25	-	-	-
Chrysene	ND	0.25	-	-	-
Dibenzo (a,h) anthracene	ND	0.25	-	-	-
Dibenzofuran	ND	0.25	-	-	-
Di-n-butyl Phthalate	ND	0.25	-	-	-
1,2-Dichlorobenzene	ND	0.25	-	-	-
1,3-Dichlorobenzene	ND	0.25	-	-	-
1,4-Dichlorobenzene	ND	0.25	-	-	-
3,3-Dichlorobenzidine	ND	0.50	-	-	-
2,4-Dichlorophenol	ND	0.25	-	-	-
Diethyl Phthalate	ND	0.25	-	-	-
2,4-Dimethylphenol	ND	0.25	-	-	-
Dimethyl Phthalate	ND	0.25	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.3	-	-	-
2,4-Dinitrophenol	ND	6.3	-	-	-
2,4-Dinitrotoluene	ND	0.25	-	-	-

(Cont.)

NELAP 4033ORELAP



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/12/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154535
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-154535

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
2,6-Dinitrotoluene	ND	0.25	-	-	-
Di-n-octyl Phthalate	ND	0.50	-	-	-
1,2-Diphenylhydrazine	ND	0.25	-	-	-
Fluoranthene	ND	0.25	-	-	-
Fluorene	ND	0.25	-	-	-
Hexachlorobenzene	ND	0.25	-	-	-
Hexachlorobutadiene	ND	0.25	-	-	-
Hexachlorocyclopentadiene	ND	1.3	-	-	-
Hexachloroethane	ND	0.25	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.25	-	-	-
Isophorone	ND	0.25	-	-	-
2-Methylnaphthalene	ND	0.25	-	-	-
2-Methylphenol (o-Cresol)	ND	0.25	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	-	-	-
Naphthalene	ND	0.25	-	-	-
2-Nitroaniline	ND	1.3	-	-	-
3-Nitroaniline	ND	1.3	-	-	-
4-Nitroaniline	ND	1.3	-	-	-
Nitrobenzene	ND	0.25	-	-	-
2-Nitrophenol	ND	1.3	-	-	-
4-Nitrophenol	ND	1.3	-	-	-
N-Nitrosodiphenylamine	ND	0.25	-	-	-
N-Nitrosodi-n-propylamine	ND	0.25	-	-	-
Pentachlorophenol	ND	1.3	-	-	-
Phenanthrene	ND	0.25	-	-	-
Phenol	ND	0.25	-	-	-
Pyrene	ND	0.25	-	-	-
Pyridine	ND	0.25	-	-	-
1,2,4-Trichlorobenzene	ND	0.25	-	-	-
2,4,5-Trichlorophenol	ND	0.25	-	-	-
2,4,6-Trichlorophenol	ND	0.25	-	-	-

(Cont.)

NELAP 4033ORELAP



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1803578
Date Prepared: 3/12/18	BatchID: 154535
Date Analyzed: 3/12/18	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: 17221; 1401 West Winton, Hayward	Sample ID: MB/LCS/LCSD-154535

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	5.72		5	114	30-130
Phenol-d5	5.37		5	107	30-130
Nitrobenzene-d5	5.72		5	114	30-130
2-Fluorobiphenyl	4.64		5	93	30-130
2,4,6-Tribromophenol	5.00		5	100	16-130
4-Terphenyl-d14	5.24		5	105	30-130



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/12/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154535
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-154535

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	4.11	3.96	5	82	79	46-118	3.75	30
Acenaphthylene	4.87	4.68	5	97	94	43-122	3.98	30
Anthracene	4.43	4.32	5	89	86	47-125	2.53	30
Benzidine	1.46	1.34	5	29	27	13-83	9.00	30
Benzo (a) anthracene	4.40	4.16	5	88	83	53-117	5.42	30
Benzo (a) pyrene	4.73	4.54	5	95	91	53-138	4.08	30
Benzo (b) fluoranthene	4.39	4.41	5	88	88	48-125	0	30
Benzo (g,h,i) perylene	5.09	4.86	5	102	97	51-146	4.77	30
Benzo (k) fluoranthene	4.58	4.11	5	92	82	53-124	11.0	30
Benzyl Alcohol	3.72	3.53	5	74	71	51-105	5.24	30
Bis (2-chloroethoxy) Methane	4.24	4.12	5	85	82	48-115	2.98	30
Bis (2-chloroethyl) Ether	4.24	4.04	5	85	81	51-105	4.69	30
Bis (2-chloroisopropyl) Ether	5.30	5.02	5	106	100	85-119	5.34	30
Bis (2-ethylhexyl) Adipate	5.66	4.95	5	113	99	46-117	13.2	30
Bis (2-ethylhexyl) Phthalate	5.73	5.16	5	115	103	50-124	10.5	30
4-Bromophenyl Phenyl Ether	4.22	4.13	5	84	83	70-112	2.22	30
Butylbenzyl Phthalate	5.74	5.18	5	115	104	55-127	10.1	30
4-Chloroaniline	2.76	2.78	5	55	56	18-77	0.563	30
4-Chloro-3-methylphenol	5.52	5.10	5	110	102	49-123	7.78	30
2-Chloronaphthalene	3.96	3.82	5	79	76	44-109	3.78	30
2-Chlorophenol	4.90	4.71	5	98	94	55-116	4.09	30
4-Chlorophenyl Phenyl Ether	4.68	4.55	5	94	91	45-122	2.87	30
Chrysene	4.44	4.24	5	89	85	54-116	4.67	30
Dibenzo (a,h) anthracene	4.20	4.03	5	84	81	52-141	4.18	30
Dibenzofuran	4.62	4.47	5	92	89	46-117	3.35	30
Di-n-butyl Phthalate	4.46	4.24	5	89	85	45-126	5.02	30
1,2-Dichlorobenzene	4.48	4.31	5	90	86	55-105	4.03	30
1,3-Dichlorobenzene	4.23	4.11	5	85	82	51-104	2.89	30
1,4-Dichlorobenzene	3.96	3.82	5	79	76	50-102	3.39	30
3,3-Dichlorobenzidine	2.93	2.79	5	59	56	20-84	4.92	30
2,4-Dichlorophenol	5.39	5.26	5	108	105	54-124	2.44	30
Diethyl Phthalate	4.64	4.38	5	93	88	42-118	5.85	30
2,4-Dimethylphenol	5.49	5.26	5	110	105	53-120	4.21	30
Dimethyl Phthalate	4.32	4.13	5	86	83	45-118	4.55	30
4,6-Dinitro-2-methylphenol	6.90	6.98	5	138, F7	140, F7	32-126	1.21	30
2,4-Dinitrophenol	8.16	8.18	5	163, F7	164, F7	20-130	0.271	30
2,4-Dinitrotoluene	5.31	5.15	5	106	103	47-117	3.09	30
2,6-Dinitrotoluene	5.32	5.12	5	106	102	48-121	3.86	30
Di-n-octyl Phthalate	6.07	5.43	5	121	109	40-150	11.1	30

(Cont.)

NELAP 4033ORELAP



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/12/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154535
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-154535

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,2-Diphenylhydrazine	4.71	4.50	5	94	90	88-117	4.40	30
Fluoranthene	4.72	4.66	5	94	93	45-126	1.12	30
Fluorene	4.62	4.46	5	92	89	43-118	3.37	30
Hexachlorobenzene	3.71	3.55	5	74	71	47-130	4.57	30
Hexachlorobutadiene	4.14	3.94	5	83	79	50-121	4.90	30
Hexachlorocyclopentadiene	3.68	3.51	5	74	70	30-89	4.72	30
Hexachloroethane	4.58	4.39	5	92	88	50-106	4.13	30
Indeno (1,2,3-cd) pyrene	4.31	4.12	5	86	82	51-138	4.59	30
Isophorone	3.89	3.67	5	78	73	38-92	5.71	30
2-Methylnaphthalene	4.64	4.47	5	93	89	51-121	3.71	30
2-Methylphenol (o-Cresol)	4.86	4.69	5	97	94	48-114	3.56	30
3 & 4-Methylphenol (m,p-Cresol)	4.71	4.53	5	94	91	30-130	3.89	30
Naphthalene	4.01	3.88	5	80	78	50-113	3.48	30
2-Nitroaniline	5.31	5.14	5	106	103	45-115	3.10	30
3-Nitroaniline	4.20	4.15	5	84	83	31-93	1.27	30
4-Nitroaniline	5.18	5.24	5	104	105	41-108	0.973	30
Nitrobenzene	5.38	5.19	5	108	104	49-122	3.62	30
2-Nitrophenol	4.84	4.73	5	97	95	54-121	2.26	30
4-Nitrophenol	3.76	3.73	5	75	75	40-102	0	30
N-Nitrosodi-n-propylamine	5.00	4.77	5	100	95	47-108	4.85	30
Pentachlorophenol	6.02	5.94	5	120	119	39-134	1.29	30
Phenanthrene	3.94	3.83	5	79	77	49-123	2.80	30
Phenol	4.47	4.27	5	89	85	49-107	4.67	30
Pyrene	4.66	4.25	5	93	85	55-124	9.28	30
Pyridine	6.51	6.24	5	130	125	70-130	4.25	30
1,2,4-Trichlorobenzene	4.53	4.40	5	91	88	51-121	2.79	30
2,4,5-Trichlorophenol	4.72	4.61	5	94	92	45-126	2.51	30
2,4,6-Trichlorophenol	4.60	4.46	5	92	89	46-128	3.05	30
Surrogate Recovery								
2-Fluorophenol	5.63	5.03	5	113	101	47-125	11.3	30
Phenol-d5	5.36	4.87	5	107	97	45-117	9.62	30
Nitrobenzene-d5	5.77	5.16	5	115	103	39-121	11.2	30
2-Fluorobiphenyl	4.59	4.14	5	92	83	35-120	10.3	30
2,4,6-Tribromophenol	5.87	5.27	5	117, F3	105	32-111	10.7	30
4-Terphenyl-d14	5.44	4.61	5	109	92	32-128	16.6	30

(Cont.)

NELAP 4033ORELAP



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/13/18
Date Analyzed: 3/13/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154636
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-154636
 1803658-002AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.74	0.25	5	-	75	46-118
Acenaphthylene	ND	4.47	0.25	5	-	89	43-122
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	3.94	0.25	5	-	79	47-125
Benzidine	ND	1.10	1.3	5	-	22	13-83
Benzo (a) anthracene	ND	3.89	0.25	5	-	78	53-117
Benzo (a) pyrene	ND	4.05	0.25	5	-	81	53-138
Benzo (b) fluoranthene	ND	3.66	0.25	5	-	73	48-125
Benzo (g,h,i) perylene	ND	4.50	0.25	5	-	90	51-146
Benzo (k) fluoranthene	ND	4.09	0.25	5	-	82	53-124
Benzyl Alcohol	ND	2.31	1.3	5	-	46, F2	51-105
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	3.79	0.25	5	-	76	48-115
Bis (2-chloroethyl) Ether	ND	3.75	0.25	5	-	75	51-105
Bis (2-chloroisopropyl) Ether	ND	4.53	0.25	5	-	91	85-119
Bis (2-ethylhexyl) Adipate	ND	4.27	0.25	5	-	85	46-117
Bis (2-ethylhexyl) Phthalate	ND	4.32	0.25	5	-	86	50-124
4-Bromophenyl Phenyl Ether	ND	3.83	0.25	5	-	77	70-112
Butylbenzyl Phthalate	ND	4.58	0.25	5	-	92	55-127
4-Chloroaniline	ND	2.05	0.50	5	-	41	18-77
4-Chloro-3-methylphenol	ND	4.44	0.25	5	-	89	49-123
2-Chloronaphthalene	ND	3.66	0.25	5	-	73	44-109
2-Chlorophenol	ND	4.28	0.25	5	-	86	55-116
4-Chlorophenyl Phenyl Ether	ND	4.19	0.25	5	-	84	45-122
Chrysene	ND	3.95	0.25	5	-	79	54-116
Dibenzo (a,h) anthracene	ND	3.64	0.25	5	-	73	52-141
Dibenzofuran	ND	4.21	0.25	5	-	84	46-117
Di-n-butyl Phthalate	ND	3.71	0.25	5	-	74	45-126
1,2-Dichlorobenzene	ND	4.04	0.25	5	-	81	55-105
1,3-Dichlorobenzene	ND	3.88	0.25	5	-	78	51-104
1,4-Dichlorobenzene	ND	3.58	0.25	5	-	72	50-102
3,3-Dichlorobenzidine	ND	2.01	0.50	5	-	40	20-84
2,4-Dichlorophenol	ND	4.81	0.25	5	-	96	54-124
Diethyl Phthalate	ND	4.02	0.25	5	-	80	42-118
2,4-Dimethylphenol	ND	4.82	0.25	5	-	96	53-120
Dimethyl Phthalate	ND	3.87	0.25	5	-	77	45-118
4,6-Dinitro-2-methylphenol	ND	6.08	1.3	5	-	122	32-126

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/13/18
Date Analyzed: 3/13/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154636
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-154636
 1803658-002AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
2,4-Dinitrophenol	ND	7.60	6.3	5	-	152, F2	20-130
2,4-Dinitrotoluene	ND	4.78	0.25	5	-	96	47-117
2,6-Dinitrotoluene	ND	4.81	0.25	5	-	96	48-121
Di-n-octyl Phthalate	ND	4.19	0.50	5	-	84	40-150
1,2-Diphenylhydrazine	ND	4.17	0.25	5	-	83, F2	88-117
Fluoranthene	ND	4.12	0.25	5	-	82	45-126
Fluorene	ND	4.13	0.25	5	-	83	43-118
Hexachlorobenzene	ND	3.43	0.25	5	-	69	47-130
Hexachlorobutadiene	ND	3.85	0.25	5	-	77	50-121
Hexachlorocyclopentadiene	ND	3.72	1.3	5	-	74	30-89
Hexachloroethane	ND	4.10	0.25	5	-	82	50-106
Indeno (1,2,3-cd) pyrene	ND	3.75	0.25	5	-	75	51-138
Isophorone	ND	3.37	0.25	5	-	67	38-92
2-Methylnaphthalene	ND	4.16	0.25	5	-	83	51-121
2-Methylphenol (o-Cresol)	ND	4.15	0.25	5	-	83	48-114
3 & 4-Methylphenol (m,p-Cresol)	ND	4.03	0.25	5	-	81	30-130
Naphthalene	ND	3.63	0.25	5	-	73	50-113
2-Nitroaniline	ND	4.60	1.3	5	-	92	45-115
3-Nitroaniline	ND	3.51	1.3	5	-	70	31-93
4-Nitroaniline	ND	4.53	1.3	5	-	91	41-108
Nitrobenzene	ND	4.67	0.25	5	-	93	49-122
2-Nitrophenol	ND	4.32	1.3	5	-	86	54-121
4-Nitrophenol	ND	2.44	1.3	5	-	49	40-102
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	4.21	0.25	5	-	84	47-108
Pentachlorophenol	ND	5.17	1.3	5	-	103	39-134
Phenanthrene	ND	3.52	0.25	5	-	70	49-123
Phenol	ND	3.79	0.25	5	-	76	49-107
Pyrene	ND	4.01	0.25	5	-	80	55-124
Pyridine	ND	5.81	0.25	5	-	116	70-130
1,2,4-Trichlorobenzene	ND	4.08	0.25	5	-	82	51-121
2,4,5-Trichlorophenol	ND	4.86	0.25	5	-	97	45-126
2,4,6-Trichlorophenol	ND	4.10	0.25	5	-	82	46-128

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1803578
Date Prepared: 3/13/18	BatchID: 154636
Date Analyzed: 3/13/18	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: 17221; 1401 West Winton, Hayward	Sample ID: MB/LCS-154636 1803658-002AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
2-Fluorophenol	4.58	5.04		5	92	101	47-125
Phenol-d5	4.17	4.78		5	83	96	45-117
Nitrobenzene-d5	4.44	5.16		5	89	103	39-121
2-Fluorobiphenyl	3.72	4.29		5	74	86	35-120
2,4,6-Tribromophenol	3.49	4.85		5	70	97	32-111
4-Terphenyl-d14	4.38	4.78		5	88	96	32-128



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/13/18
Date Analyzed: 3/13/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154636
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-154636
 1803658-002AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	NR	NR		ND<10	NR	NR	-	NR	-
Acenaphthylene	NR	NR		ND<10	NR	NR	-	NR	-
Anthracene	NR	NR		ND<10	NR	NR	-	NR	-
Benzidine	NR	NR		ND<52	NR	NR	-	NR	-
Benzo (a) anthracene	NR	NR		ND<10	NR	NR	-	NR	-
Benzo (a) pyrene	NR	NR		ND<10	NR	NR	-	NR	-
Benzo (b) fluoranthene	NR	NR		ND<10	NR	NR	-	NR	-
Benzo (g,h,i) perylene	NR	NR		ND<10	NR	NR	-	NR	-
Benzo (k) fluoranthene	NR	NR		ND<10	NR	NR	-	NR	-
Benzyl Alcohol	NR	NR		ND<52	NR	NR	-	NR	-
Bis (2-chloroethoxy) Methane	NR	NR		ND<10	NR	NR	-	NR	-
Bis (2-chloroethyl) Ether	NR	NR		ND<10	NR	NR	-	NR	-
Bis (2-chloroisopropyl) Ether	NR	NR		ND<10	NR	NR	-	NR	-
Bis (2-ethylhexyl) Adipate	NR	NR		ND<10	NR	NR	-	NR	-
Bis (2-ethylhexyl) Phthalate	NR	NR		ND<10	NR	NR	-	NR	-
4-Bromophenyl Phenyl Ether	NR	NR		ND<10	NR	NR	-	NR	-
Butylbenzyl Phthalate	NR	NR		ND<10	NR	NR	-	NR	-
4-Chloroaniline	NR	NR		ND<20	NR	NR	-	NR	-
4-Chloro-3-methylphenol	NR	NR		ND<10	NR	NR	-	NR	-
2-Chloronaphthalene	NR	NR		ND<10	NR	NR	-	NR	-
2-Chlorophenol	NR	NR		ND<10	NR	NR	-	NR	-
4-Chlorophenyl Phenyl Ether	NR	NR		ND<10	NR	NR	-	NR	-
Chrysene	NR	NR		ND<10	NR	NR	-	NR	-
Dibenzo (a,h) anthracene	NR	NR		ND<10	NR	NR	-	NR	-
Dibenzofuran	NR	NR		ND<10	NR	NR	-	NR	-
Di-n-butyl Phthalate	NR	NR		ND<10	NR	NR	-	NR	-
1,2-Dichlorobenzene	NR	NR		ND<10	NR	NR	-	NR	-
1,3-Dichlorobenzene	NR	NR		ND<10	NR	NR	-	NR	-
1,4-Dichlorobenzene	NR	NR		ND<10	NR	NR	-	NR	-
3,3-Dichlorobenzidine	NR	NR		ND<20	NR	NR	-	NR	-
2,4-Dichlorophenol	NR	NR		ND<10	NR	NR	-	NR	-
Diethyl Phthalate	NR	NR		ND<10	NR	NR	-	NR	-
2,4-Dimethylphenol	NR	NR		ND<10	NR	NR	-	NR	-
Dimethyl Phthalate	NR	NR		ND<10	NR	NR	-	NR	-
4,6-Dinitro-2-methylphenol	NR	NR		ND<52	NR	NR	-	NR	-
2,4-Dinitrophenol	NR	NR		ND<250	NR	NR	-	NR	-
2,4-Dinitrotoluene	NR	NR		ND<10	NR	NR	-	NR	-

(Cont.)

NELAP 4033ORELAP



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/13/18
Date Analyzed: 3/13/18
Instrument: GC17
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154636
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-154636
 1803658-002AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
2,6-Dinitrotoluene	NR	NR		ND<10	NR	NR	-	NR	-
Di-n-octyl Phthalate	NR	NR		ND<20	NR	NR	-	NR	-
1,2-Diphenylhydrazine	NR	NR		ND<10	NR	NR	-	NR	-
Fluoranthene	NR	NR		ND<10	NR	NR	-	NR	-
Fluorene	NR	NR		ND<10	NR	NR	-	NR	-
Hexachlorobenzene	NR	NR		ND<10	NR	NR	-	NR	-
Hexachlorobutadiene	NR	NR		ND<10	NR	NR	-	NR	-
Hexachlorocyclopentadiene	NR	NR		ND<52	NR	NR	-	NR	-
Hexachloroethane	NR	NR		ND<10	NR	NR	-	NR	-
Indeno (1,2,3-cd) pyrene	NR	NR		ND<10	NR	NR	-	NR	-
Isophorone	NR	NR		ND<10	NR	NR	-	NR	-
2-Methylnaphthalene	NR	NR		ND<10	NR	NR	-	NR	-
2-Methylphenol (o-Cresol)	NR	NR		ND<10	NR	NR	-	NR	-
3 & 4-Methylphenol (m,p-Cresol)	NR	NR		ND<10	NR	NR	-	NR	-
Naphthalene	NR	NR		ND<10	NR	NR	-	NR	-
2-Nitroaniline	NR	NR		ND<52	NR	NR	-	NR	-
3-Nitroaniline	NR	NR		ND<52	NR	NR	-	NR	-
4-Nitroaniline	NR	NR		ND<52	NR	NR	-	NR	-
Nitrobenzene	NR	NR		ND<10	NR	NR	-	NR	-
2-Nitrophenol	NR	NR		ND<52	NR	NR	-	NR	-
4-Nitrophenol	NR	NR		ND<52	NR	NR	-	NR	-
N-Nitrosodi-n-propylamine	NR	NR		ND<10	NR	NR	-	NR	-
Pentachlorophenol	NR	NR		ND<52	NR	NR	-	NR	-
Phenanthrene	NR	NR		ND<10	NR	NR	-	NR	-
Phenol	NR	NR		ND<10	NR	NR	-	NR	-
Pyrene	NR	NR		ND<10	NR	NR	-	NR	-
Pyridine	NR	NR		ND<10	NR	NR	-	NR	-
1,2,4-Trichlorobenzene	NR	NR		ND<10	NR	NR	-	NR	-
2,4,5-Trichlorophenol	NR	NR		ND<10	NR	NR	-	NR	-
2,4,6-Trichlorophenol	NR	NR		ND<10	NR	NR	-	NR	-



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/9/18
Date Analyzed: 3/12/18
Instrument: ICP-MS1, ICP-MS2
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154486
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-154486
 1803568-001AMS/MSD
 1803568-001APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	55.4	0.50	50	-	111	75-125
Arsenic	ND	50.2	0.50	50	-	100	75-125
Barium	ND	526	5.0	500	-	105	75-125
Beryllium	ND	51.3	0.50	50	-	103	75-125
Cadmium	ND	49.8	0.25	50	-	100	75-125
Chromium	ND	50.5	0.50	50	-	101	75-125
Cobalt	ND	50.3	0.50	50	-	101	75-125
Copper	ND	51.2	0.50	50	-	102	75-125
Lead	ND	51.5	0.50	50	-	103	75-125
Mercury	ND	1.19	0.050	1.25	-	95	75-125
Molybdenum	ND	51.2	0.50	50	-	102	75-125
Nickel	ND	51.7	0.50	50	-	103	75-125
Selenium	ND	50.5	0.50	50	-	101	75-125
Silver	ND	51.4	0.50	50	-	103	75-125
Thallium	ND	48.7	0.50	50	-	97	75-125
Vanadium	ND	50.6	0.50	50	-	101	75-125
Zinc	ND	514	5.0	500	-	103	75-125
Surrogate Recovery							
Terbium	520	528		500	104	106	70-130



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/9/18
Date Analyzed: 3/12/18
Instrument: ICP-MS1, ICP-MS2
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154486
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-154486
 1803568-001AMS/MSD
 1803568-001APDS

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	53.5	53.3	50	3.590	100	99	75-125	0.393	20
Arsenic	50.6	49.5	50	2.775	96	93	75-125	2.12	20
Barium	648	624	500	122.2	105	100	75-125	3.92	20
Beryllium	42.7	41.4	50	ND	85	82	75-125	3.07	20
Cadmium	48.7	48.3	50	ND	97	96	75-125	0.845	20
Chromium	83.8	99.2	50	74.41	19,F10	50,F10	75-125	16.8	20
Cobalt	56.0	62.5	50	20.16	72,F10	85	75-125	11.0	20
Copper	74.1	87.3	50	42.55	63,F10	89	75-125	16.3	20
Lead	155	51.9	50	9.378	292,F10	85	75-125	99.8,F10	20
Mercury	1.28	1.16	1.25	ND	102	92	75-125	9.80	20
Molybdenum	48.9	49.5	50	ND	97	98	75-125	1.30	20
Nickel	81.3	89.6	50	71.77	19,F10	36,F10	75-125	9.78	20
Selenium	45.5	47.8	50	ND	91	95	75-125	4.76	20
Silver	48.0	48.7	50	ND	96	97	75-125	1.30	20
Thallium	45.8	46.8	50	ND	92	94	75-125	2.07	20
Vanadium	154	167	50	63.89	181,F10	206,F10	75-125	7.79	20
Zinc	691	541	500	678.7	3,F10	0,F10	75-125	NA	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Cobalt	67.2	50	20.16	94	75-125
Copper	94.2	50	42.55	103	75-125
Lead	63.4	50	9.378	108	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	2.80	3.590	22.0	-
Arsenic	ND<2.5	2.775	-	-
Barium	121	122.2	0.982	-
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	81.8	74.41	9.93	20

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/9/18
Date Analyzed: 3/12/18
Instrument: ICP-MS1, ICP-MS2
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154486
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-154486
 1803568-001AMS/MSD
 1803568-001APDS

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Cobalt	21.9	20.16	8.63	20
Copper	42.6	42.55	0.118	20
Lead	9.17	9.378	2.22	-
Mercury	ND<0.25	ND	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	71.9	71.77	0.181	20
Selenium	ND<2.5	ND	-	-
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	69.4	63.89	8.62	20
Zinc	684	678.7	0.781	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/9/18
Date Analyzed: 3/12/18 - 3/13/18
Instrument: ICP-MS3
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154490
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-154490
 1803578-018AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	50.9	0.50	50	-	102	75-125
Arsenic	ND	47.2	0.50	50	-	94	75-125
Barium	ND	478	5.0	500	-	96	75-125
Beryllium	ND	44.9	0.50	50	-	90	75-125
Cadmium	ND	49.0	0.25	50	-	98	75-125
Chromium	ND	47.9	0.50	50	-	96	75-125
Cobalt	ND	48.5	0.50	50	-	97	75-125
Copper	ND	49.1	0.50	50	-	98	75-125
Lead	ND	48.2	0.50	50	-	96	75-125
Mercury	ND	1.13	0.050	1.25	-	90	75-125
Molybdenum	ND	46.4	0.50	50	-	93	75-125
Nickel	ND	48.0	0.50	50	-	96	75-125
Selenium	ND	46.7	0.50	50	-	93	75-125
Silver	ND	46.7	0.50	50	-	93	75-125
Thallium	ND	47.5	0.50	50	-	95	75-125
Vanadium	ND	48.1	0.50	50	-	96	75-125
Zinc	ND	477	5.0	500	-	95	75-125
Surrogate Recovery							
Terbium	498	504		500	100	101	70-130

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/9/18
Date Analyzed: 3/12/18 - 3/13/18
Instrument: ICP-MS3
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154490
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-154490
 1803578-018AMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	51.5	54.2	50	0.7289	102	107	75-125	5.00	20
Arsenic	51.2	56.0	50	7.345	88	97	75-125	8.81	20
Barium	622	666	500	152.6	94	103	75-125	6.93	20
Beryllium	44.1	44.9	50	ND	87	89	75-125	1.82	20
Cadmium	48.5	48.6	50	0.4011	96	96	75-125	0	20
Chromium	76.2	92.7	50	41.91	69,F10	102	75-125	19.6	20
Cobalt	52.7	54.8	50	9.834	86	90	75-125	3.95	20
Copper	76.9	96.7	50	35.00	84	123	75-125	22.8,F10	20
Lead	66.0	83.0	50	28.06	76	110	75-125	22.8,F10	20
Mercury	1.29	2.20	1.25	0.1592	91	163,F10	75-125	51.7,F10	20
Molybdenum	46.8	49.1	50	ND	93	98	75-125	4.96	20
Nickel	79.6	94.9	50	37.85	83	114	75-125	17.6	20
Selenium	45.0	47.8	50	ND	90	95	75-125	6.25	20
Silver	46.7	46.9	50	ND	93	93	75-125	0	20
Thallium	46.7	48.2	50	ND	93	96	75-125	2.97	20
Vanadium	88.3	100	50	44.32	88	112	75-125	12.8	20
Zinc	532	580	500	72.39	92	102	75-125	8.73	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	0.7289	-	-
Arsenic	7.08	7.345	3.61	-
Barium	155	152.6	1.57	20
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	0.4011	-	-
Chromium	44.0	41.91	4.99	20
Cobalt	10.8	9.834	9.82	-
Copper	34.6	35.00	1.14	20
Lead	27.9	28.06	0.570	20
Mercury	ND<0.25	0.1592	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	38.2	37.85	0.925	20
Selenium	ND<2.5	ND	-	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1803578
Date Prepared: 3/9/18	BatchID: 154490
Date Analyzed: 3/12/18 - 3/13/18	Extraction Method: SW3050B
Instrument: ICP-MS3	Analytical Method: SW6020
Matrix: Soil	Unit: mg/Kg
Project: 17221; 1401 West Winton, Hayward	Sample ID: MB/LCS-154490 1803578-018AMS/MSD

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	46.0	44.32	3.79	20
Zinc	76.2	72.39	5.26	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/8/18
Date Analyzed: 3/10/18
Instrument: GC11A, GC6A
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154434
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-154434
 1803520-052AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.8	1.0	40	-	102	75-128
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.9	23.4		25	96	94	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	38.9	40.1	40	5.354	84	87	71-134	2.90	30



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/9/18
Date Analyzed: 3/12/18 - 3/14/18
Instrument: GC9a
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154489
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-154489
 1803578-018AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	37.2	1.0	40	-	93	75-128
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.7	25.3		25	103	101	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	37.6	38.9	40	ND	94	97	71-134	3.34	30



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803578

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz; andrew@era
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 03/09/2018
Date Logged: 03/09/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1803578-001	B-1,1,2,2 COMP	Soil	3/9/2018 07:42	<input type="checkbox"/>					A	A	A					
1803578-002	B-3,4,4,5 COMP	Soil	3/9/2018 08:23	<input type="checkbox"/>					A	A	A					
1803578-003	B-1,1	Soil	3/9/2018 07:51	<input checked="" type="checkbox"/>	A		A									
1803578-003	B-1,5	Soil	3/8/2018 07:57	<input checked="" type="checkbox"/>	B		B									
1803578-003	B-2,1	Soil	3/8/2018 08:16	<input checked="" type="checkbox"/>	C		C									
1803578-003	B-2,2	Soil	3/8/2018 08:20	<input checked="" type="checkbox"/>	D		D									
1803578-004	B-3,11	Soil	3/8/2018 08:32	<input checked="" type="checkbox"/>	A		A									
1803578-004	B-4,1	Soil	3/8/2018 08:32	<input checked="" type="checkbox"/>	B		B									
1803578-004	B-4,2	Soil	3/8/2018 08:32	<input checked="" type="checkbox"/>	C		C									
1803578-004	B-5,1	Soil	3/8/2018 08:32	<input checked="" type="checkbox"/>	D		D									
1803578-005	B-6,7,8 COMP	Soil	3/8/2018 09:22	<input type="checkbox"/>					A	A	A					
1803578-006	B-9,10,11,12 COMP	Soil	3/8/2018 08:45	<input type="checkbox"/>					A	A	A					
1803578-007	B-6,1	Soil	3/8/2018 09:06	<input checked="" type="checkbox"/>	A		A									
1803578-007	B-6,2	Soil	3/8/2018 09:10	<input checked="" type="checkbox"/>	B		B									
1803578-007	B-7,1	Soil	3/8/2018 09:16	<input checked="" type="checkbox"/>	C		C									

Test Legend:

1	8260B_E	2		3	8260GAS_E	4	
5	8270_S	6	CAM17MS_TTLC_S	7	TPH(DMO)WSG_S	8	
9		10		11		12	

Prepared by: Alexandra Iniguez

The following SampIDs: 003A, 003B, 003C, 003D, 004A, 004B, 004C, 004D, 007A, 007B, 007C, 007D, 008A, 008B, 008C, 008D, 011A, 011B, 011C, 011D, 012A, 012B, 012C, 012D, 015A, 015B, 015C, 015D, 016A, 016B, 016C, 016D, 019A, 019B, 019C, 019D, 020A, 020B, 020C, 020D, 021A contain testgroup Gas8260_E.; The following SampIDs: 001A, 002A, 005A, 006A, 009A, 010A, 013A, 014A,

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803578

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz; andrew@era
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 03/09/2018

Date Logged: 03/09/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1803578-007	B-8,1	Soil	3/8/2018 09:22	<input checked="" type="checkbox"/>	D		D									
1803578-008	B-10,1	Soil	3/8/2018 10:04	<input checked="" type="checkbox"/>	B		B									
1803578-008	B-11,1	Soil	3/8/2018 10:14	<input checked="" type="checkbox"/>	C		C									
1803578-008	B-12,1	Soil	3/8/2018 08:45	<input checked="" type="checkbox"/>	D		D									
1803578-008	B-9,11	Soil	3/8/2018 09:29	<input checked="" type="checkbox"/>	A		A									
1803578-009	B-13,14,15 COMP	Soil	3/8/2018 09:26	<input type="checkbox"/>					A	A	A					
1803578-010	B-16,17,18 COMP	Soil	3/8/2018 09:55	<input type="checkbox"/>					A	A	A					
1803578-011	B-13,1	Soil	3/8/2018 08:50	<input checked="" type="checkbox"/>	A		A									
1803578-011	B-14,1	Soil	3/8/2018 08:56	<input checked="" type="checkbox"/>	B		B									
1803578-011	B-14,2	Soil	3/8/2018 09:17	<input checked="" type="checkbox"/>	C		C									
1803578-011	B-15,1	Soil	3/8/2018 09:26	<input checked="" type="checkbox"/>	D		D									
1803578-012	B-16,1	Soil	3/8/2018 09:35	<input checked="" type="checkbox"/>	A		A									
1803578-012	B-17,1	Soil	3/8/2018 09:41	<input checked="" type="checkbox"/>	B		B									
1803578-012	B-18,1	Soil	3/8/2018 09:46	<input checked="" type="checkbox"/>	C		C									
1803578-012	B-18,2	Soil	3/8/2018 09:55	<input checked="" type="checkbox"/>	D		D									

Test Legend:

1	8260B_E	2		3	8260GAS_E	4	
5	8270_S	6	CAM17MS_TTLC_S	7	TPH(DMO)WSG_S	8	
9		10		11		12	

Prepared by: Alexandra Iniguez

The following SampIDs: 003A, 003B, 003C, 003D, 004A, 004B, 004C, 004D, 007A, 007B, 007C, 007D, 008A, 008B, 008C, 008D, 011A, 011B, 011C, 011D, 012A, 012B, 012C, 012D, 015A, 015B, 015C, 015D, 016A, 016B, 016C, 016D, 019A, 019B, 019C, 019D, 020A, 020B, 020C, 020D, 021A contain testgroup Gas8260_E.; The following SampIDs: 001A, 002A, 005A, 006A, 009A, 010A, 013A, 014A,

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803578

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz; andrew@era
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 03/09/2018

Date Logged: 03/09/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1803578-013	B-19,20,21,22 COMP	Soil	3/8/2018 10:59	<input type="checkbox"/>					A	A	A					
1803578-014	B-22,23,24,25 COMP	Soil	3/9/2018 10:29	<input type="checkbox"/>					A	A	A					
1803578-015	B-19,1	Soil	3/8/2018 10:16	<input checked="" type="checkbox"/>	A		A									
1803578-015	B-20,1	Soil	3/8/2018 10:16	<input checked="" type="checkbox"/>	B		B									
1803578-015	B-21,1	Soil	3/8/2018 10:16	<input checked="" type="checkbox"/>	C		C									
1803578-015	B-22,1	Soil	3/8/2018 10:16	<input checked="" type="checkbox"/>	D		D									
1803578-016	B-22,2	Soil	3/8/2018 11:10	<input checked="" type="checkbox"/>	A		A									
1803578-016	B-23,1	Soil	3/8/2018 11:10	<input checked="" type="checkbox"/>	B		B									
1803578-016	B-24,1	Soil	3/8/2018 11:10	<input checked="" type="checkbox"/>	C		C									
1803578-016	B-25,1	Soil	3/8/2018 11:10	<input checked="" type="checkbox"/>	D		D									
1803578-017	B-25,26,27,28 COMP	Soil	3/9/2018 07:42	<input type="checkbox"/>					A	A	A					
1803578-018	B-28,29,30,31 COMP	Soil	3/9/2018 08:52	<input type="checkbox"/>					A	A	A					
1803578-019	B-25,2	Soil	3/8/2018 07:42	<input checked="" type="checkbox"/>	A		A									
1803578-019	B-26,1	Soil	3/8/2018 10:59	<input checked="" type="checkbox"/>	B		B									
1803578-019	B-27,1	Soil	3/8/2018 11:21	<input checked="" type="checkbox"/>	C		C									

Test Legend:

1	8260B_E	2		3	8260GAS_E	4	
5	8270_S	6	CAM17MS_TTLC_S	7	TPH(DMO)WSG_S	8	
9		10		11		12	

Prepared by: Alexandra Iniguez

The following SampIDs: 003A, 003B, 003C, 003D, 004A, 004B, 004C, 004D, 007A, 007B, 007C, 007D, 008A, 008B, 008C, 008D, 011A, 011B, 011C, 011D, 012A, 012B, 012C, 012D, 015A, 015B, 015C, 015D, 016A, 016B, 016C, 016D, 019A, 019B, 019C, 019D, 020A, 020B, 020C, 020D, 021A contain testgroup Gas8260_E.; The following SampIDs: 001A, 002A, 005A, 006A, 009A, 010A, 013A, 014A,

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803578

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz; andrew@era
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 03/09/2018

Date Logged: 03/09/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1803578-019	B-28,1	Soil	3/8/2018 11:24	<input checked="" type="checkbox"/>	D		D										
1803578-020	B-28,2	Soil	3/9/2018 07:52	<input checked="" type="checkbox"/>	A		A										
1803578-020	B-29,1	Soil	3/9/2018 07:52	<input checked="" type="checkbox"/>	B		B										
1803578-020	B-30,1	Soil	3/9/2018 07:52	<input checked="" type="checkbox"/>	C		C										
1803578-020	B-31,6	Soil	3/9/2018 08:23	<input checked="" type="checkbox"/>	D		D										
1803578-021	B-26,0.5-1	Soil	3/8/2018 11:18	<input checked="" type="checkbox"/>	A		A										

Test Legend:

1	8260B_E	2		3	8260GAS_E	4	
5	8270_S	6	CAM17MS_TTLC_S	7	TPH(DMO)WSG_S	8	
9		10		11		12	

Prepared by: Alexandra Iniguez

The following SampIDs: 003A, 003B, 003C, 003D, 004A, 004B, 004C, 004D, 007A, 007B, 007C, 007D, 008A, 008B, 008C, 008D, 011A, 011B, 011C, 011D, 012A, 012B, 012C, 012D, 015A, 015B, 015C, 015D, 016A, 016B, 016C, 016D, 019A, 019B, 019C, 019D, 020A, 020B, 020C, 020D, 021A contain testgroup Gas8260_E.; The following SampIDs: 001A, 002A, 005A, 006A, 009A, 010A, 013A, 014A,

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments:

Date Logged: 3/9/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1803578-001A	B-1,1,2,2 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/9/2018 7:42	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-002A	B-3,4,4,5 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/9/2018 8:23	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-003A	B-1,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/9/2018 7:51	5 days		<input checked="" type="checkbox"/>			
1803578-003B	B-1,5	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 7:57	5 days		<input checked="" type="checkbox"/>			
1803578-003C	B-2,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:16	5 days		<input checked="" type="checkbox"/>			
1803578-003D	B-2,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:20	5 days		<input checked="" type="checkbox"/>			
1803578-004A	B-3,11	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:32	5 days		<input checked="" type="checkbox"/>			
1803578-004B	B-4,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:32	5 days		<input checked="" type="checkbox"/>			
1803578-004C	B-4,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:32	5 days		<input checked="" type="checkbox"/>			
1803578-004D	B-5,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:32	5 days		<input checked="" type="checkbox"/>			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments:

Date Logged: 3/9/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1803578-005A	B-6,7,8 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	1	Acetate Liner	<input type="checkbox"/>	3/8/2018 9:22	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-006A	B-9,10,11,12 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/8/2018 8:45	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-007A	B-6,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1 / (1:1)	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:06	5 days		<input checked="" type="checkbox"/>			
1803578-007B	B-6,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:10	5 days		<input checked="" type="checkbox"/>			
1803578-007C	B-7,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:16	5 days		<input checked="" type="checkbox"/>			
1803578-007D	B-8,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:22	5 days		<input checked="" type="checkbox"/>			
1803578-008A	B-9,11	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:29	5 days		<input checked="" type="checkbox"/>			
1803578-008B	B-10,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:04	5 days		<input checked="" type="checkbox"/>			
1803578-008C	B-11,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:14	5 days		<input checked="" type="checkbox"/>			
1803578-008D	B-12,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:45	5 days		<input checked="" type="checkbox"/>			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments:

Date Logged: 3/9/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1803578-009A	B-13,14,15 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/8/2018 9:26	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-010A	B-16,17,18 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/8/2018 9:55	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-011A	B-13,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:50	5 days		<input checked="" type="checkbox"/>			
1803578-011B	B-14,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 8:56	5 days		<input checked="" type="checkbox"/>			
1803578-011C	B-14,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:17	5 days		<input checked="" type="checkbox"/>			
1803578-011D	B-15,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:26	5 days		<input checked="" type="checkbox"/>			
1803578-012A	B-16,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	4 / (4:1)	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:35	5 days		<input checked="" type="checkbox"/>			
1803578-012B	B-17,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:41	5 days		<input checked="" type="checkbox"/>			
1803578-012C	B-18,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:46	5 days		<input checked="" type="checkbox"/>			
1803578-012D	B-18,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 9:55	5 days		<input checked="" type="checkbox"/>			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments:

Date Logged: 3/9/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1803578-013A	B-19,20,21,22 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/8/2018 10:59	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-014A	B-22,23,24,25 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/9/2018 10:29	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-015A	B-19,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:16	5 days		<input checked="" type="checkbox"/>			
1803578-015B	B-20,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:16	5 days		<input checked="" type="checkbox"/>			
1803578-015C	B-21,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:16	5 days		<input checked="" type="checkbox"/>			
1803578-015D	B-22,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:16	5 days		<input checked="" type="checkbox"/>			
1803578-016A	B-22,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:10	5 days		<input checked="" type="checkbox"/>			
1803578-016B	B-23,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:10	5 days		<input checked="" type="checkbox"/>			
1803578-016C	B-24,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:10	5 days		<input checked="" type="checkbox"/>			
1803578-016D	B-25,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:10	5 days		<input checked="" type="checkbox"/>			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email: info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments:

Date Logged: 3/9/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1803578-017A	B-25,26,27,28 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/9/2018 7:42	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-018A	B-28,29,30,31 COMP	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Acetate Liner	<input type="checkbox"/>	3/9/2018 8:52	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1803578-019A	B-25,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	4 / (4:1)	Encore Sampler	<input type="checkbox"/>	3/8/2018 7:42	5 days		<input checked="" type="checkbox"/>			
1803578-019B	B-26,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 10:59	5 days		<input checked="" type="checkbox"/>			
1803578-019C	B-27,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:21	5 days		<input checked="" type="checkbox"/>			
1803578-019D	B-28,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:24	5 days		<input checked="" type="checkbox"/>			
1803578-020A	B-28,2	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	4 / (4:1)	Encore Sampler	<input type="checkbox"/>	3/9/2018 7:52	5 days		<input checked="" type="checkbox"/>			
1803578-020B	B-29,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/9/2018 7:52	5 days		<input checked="" type="checkbox"/>			
1803578-020C	B-30,1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/9/2018 7:52	5 days		<input checked="" type="checkbox"/>			
1803578-020D	B-31,6	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/9/2018 8:23	5 days		<input checked="" type="checkbox"/>			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.
Client Contact: Greg Munsell
Contact's Email: info@eras.biz; greg@eras.biz; andrew@eras.biz

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578
QC Level: LEVEL 2
Date Logged: 3/9/2018

Comments:

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803578-021A	B-26,0.5-1	Soil	TPH(g) & 8260 by P&T GCMS [Encore]	1	Encore Sampler	<input type="checkbox"/>	3/8/2018 11:18	5 days			<input checked="" type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY FORM

1803578

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnarou
 d Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Telephone: 510-247-9885 Fax: 510-886-5399
 Email: info@eras.biz

Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative										
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None						
B-1, 0.5-1		3/8/2018	0810	1	Tube	X						X							
B-1, 4.5-5		3/8/2018	0820	1	Tube	X						X							
B-2, 0.5-1		3/8/2018	0816	1	Tube	X						X							
B-2, 1.5-2		3/8/2018	0820	1	Tube	X						X							
B-3, 10.5-11		3/8/2018	0832	1	Tube	X						X							
B-4, 0.5-1		3/8/2018	0843	1	Tube	X						X							
B-4, 1.5-2		3/8/2018	0847	1	Tube	X						X							
B-5, 0.5-1		3/8/2018	0856	1	Tube	X						X							
B-1, 1		3/8/2018	0751	1	Enc	X						X							
B-1, 5		3/8/2018	0756	1	Enc	X						X							
B-2, 1		3/8/2018	0816	1	Enc	X						X							
B-2, 2		3/8/2018	0820	1	Enc	X						X							
B-3, 11		3/8/2018	0832	1	Enc	X						X							
B-4, 1		3/8/2018	0843	1	Enc	X						X							
B-4, 2		3/8/2018	0847	1	Enc	X						X							
B-5, 1		3/8/2018	0856	1	Enc	X						X							

Analysis Requested	Other	Comments
TPH-gro and VOCs by EPA Method 8260		COMPOSITE
TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup		
CAM 17 Metals		
SVOC by EPA Method 8270		
HOLD		
		COMPOSITE
		COMPOSITE

★ Gas and 8260 added to composites 3/13/18
 ★ ENCORES placed on hold

RELINQUISHED BY:		RECEIVED BY:	
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>2:30 P.M.</u>	Received by: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>1:55</u>	Received by: <u>[Signature]</u>
Relinquished by:	Date:	Time:	Received by:

ICE/t- Condition	Comments: Please PDF and PROVIDE J FLAGS
Head space absent	
Dechlorinated in lab	
Appropriate containers	
Preserved in Lab	
Preservation	VOA's O&G Metals Other pH<2

1 of 5

CHAIN OF CUSTODY FORM

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260		HOLD *Gas and 8260 added to composites 3/15/18 *ENCLOSURES placed on hold.
TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup		
CAM 17 Metals		
SVOC by EPA Method 8270		

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Email: info@eras.biz

Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221

Project location 1401 West Winton, Hayward

Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative				
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None
		B-6, 0.5-1				3/8/2018	0910	1	Tube	X			
B-6, 1.5-2		3/8/2018	0912	1	Tube	X						X	
B-7, 0.5-1		3/8/2018	0916	1	Tube	X						X	
B-8, 0.5-1		3/8/2018	0922	1	Tube	X						X	
B-9, 10.5-11		3/8/2018	0929	1	Tube	X						X	
B-10, 0.5-1		3/8/2018	1004	1	Tube	X						X	
B-11, 0.5-1		3/8/2018	1014	1	Tube	X						X	
B-12, 0.5-1		3/8/2018	0845	1	Tube	X						X	
B-6, 1		3/8/2018	0906	1	Enc	X						X	
B-6, 2		3/8/2018	0900	1	Enc	X						X	
B-7, 1		3/8/2018	0916	1	Enc	X						X	
B-8, 1		3/8/2018	0922	1	Enc	X						X	
B-9, 11		3/8/2018	0929	1	Enc	X						X	
B-10, 1		3/8/2018	1004	1	Enc	X						X	
B-11, 1		3/8/2018	1014	1	Enc	X						X	
B-12, 1		3/8/2018	0845	1	Enc	X						X	

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <i>[Signature]</i>	Date: 3/9/18	Time: 2:30 PM	Received by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55
Relinquished by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55	Received by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ICE/t-Condition	_____	Comments: Please PDF and PROVIDE J FLAGS
Head space absent	_____	
Dechlorinated in lab	_____	
Appropriate containers	_____	
Preserved in Lab	_____	
Preservation	VOA's O&G Metals Other pH<2	

2 of 5

CHAIN OF CUSTODY FORM

Turnaround Time:	<input type="checkbox"/> Rush	<input type="checkbox"/> 24Hr	<input type="checkbox"/> 48 Hr	<input type="checkbox"/> 72 Hr	<input checked="" type="checkbox"/> 5 Day
Geotracker:	<input type="checkbox"/> EDF	<input type="checkbox"/> Excel	<input type="checkbox"/> Write On (DW)		

Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270		
HOLD		
		COMPOSITE
		COMPOSITE
		COMPOSITE
		COMPOSITE

McC Campbell Analytical, Inc
 1534 Willow Pass Rd.
 Pittsburg, CA 94565
 877.252.9262
 925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-13, 0.5-1		3/8/2018	0850	1	Tube	X					X			
B-14, 0.5-1		3/8/2018	0856	1	Tube	X					X			
B-14, 1.5-2		3/8/2018	0917	1	Tube	X					X			
B-15, 0.5-1		3/8/2018	0926	1	Tube	X					X			
B-16, 0.5-1		3/8/2018	0935	1	Tube	X					X			
B-17, 0.5-1		3/8/2018	0941	1	Tube	X					X			
B-18, 0.5-1		3/8/2018	0946	1	Tube	X					X			
B-18, 1.5-2		3/8/2018	0955	1	Tube	X					X			
B-13, 1		3/8/2018	0850	1	Enc	X					X			
B-14, 1		3/8/2018	0856	1	Enc	X					X			
B-14, 2		3/8/2018	0917	1	Enc	X					X			
B-15, 1		3/8/2018	0926	1	Enc	X					X			
B-16, 1		3/8/2018	0935	1	Enc	X					X			
B-17, 1		3/8/2018	0941	1	Enc	X					X			
B-18, 1		3/8/2018	0946	1	Enc	X					X			
B-18, 2		3/8/2018	0955	1	Enc	X					X			

* Gas and 8260 added to composites 3/8/18
 * ENCOSES placed on hold.

RELINQUISHED BY:		RECEIVED BY:	
Relinquished by: <i>[Signature]</i>	Date: <u>3/8/18</u>	Received by: <i>[Signature]</i>	Time: <u>2:50</u>
Relinquished by: <i>[Signature]</i>	Date: <u>3/9/18</u>	Received by: <i>[Signature]</i>	Time: <u>1:55</u>
Relinquished by:	Date:	Received by:	Time:

ICE/- Condition _____ Head space absent _____ Dechlorinated in lab _____ Appropriate containers _____ Preserved in Lab _____ Preservation _____	Comments: Please PDF and PROVIDE J FLAGS VOA's O&G Metals Other pH<2
--	---

3 of 5

CHAIN OF CUSTODY FORM

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260		*GOG and 8260 added to composite's 3/13/18 *ENCORES placed on hold
TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup		
CAM 17 Metals		
SVOC by EPA Method 8270		
HOLD		
B-19, 0.5-1		COMPOSITE
B-20, 0.5-1		
B-21, 0.5-1		
B-22, 0.5-1		
B-22, 1.5-2		COMPOSITE
B-23, 0.5-1		
B-24, 0.5-1		
B-25, 0.5-1		
B-19, 1		COMPOSITE
B-20, 1		
B-21, 1		
B-22, 1		
B-22, 2		COMPOSITE
B-23, 1		
B-24, 1		
B-25, 1		

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399
 Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-19, 0.5-1		3/8/2018	1016	1	Tube	X						X		
B-20, 0.5-1		3/8/2018	1019	1	Tube	X						X		
B-21, 0.5-1		3/8/2018	1023	1	Tube	X						X		
B-22, 0.5-1		3/8/2018	1059	1	Tube	X						X		
B-22, 1.5-2		3/9/2018	1029	1	Tube	X						X		
B-23, 0.5-1		3/8/2018	1102	1	Tube	X						X		
B-24, 0.5-1		3/8/2018	1106	1	Tube	X						X		
B-25, 0.5-1		3/8/2018	1117	1	Tube	X						X		
B-19, 1		3/8/2018	1016	1	Enc	X						X		
B-20, 1		3/8/2018	1019	1	Enc	X						X		
B-21, 1		3/8/2018	1023	1	Enc	X						X		
B-22, 1		3/8/2018	1029	1	Enc	X						X		
B-22, 2		3/9/2018	0731	1	Enc	X						X		
B-23, 1		3/8/2018	1102	1	Enc	X						X		
B-24, 1		3/8/2018	1105	1	Enc	X						X		
B-25, 1		3/8/2018	1110	1	Enc	X						X		

RELINQUISHED BY: Greg Munsell 1430 Date: 3/9/18 Time: 3:30
RECEIVED BY: L Moore
 Relinquished by: L Moore Date: 3/9/18 Time: 5:55
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____

ICE/t- Condition _____
 Head space absent _____
 Dechlorinated in lab _____
 Appropriate containers _____
 Preserved in Lab _____
 Preservation _____

VOA's O&G Metals Other
 pH<2

Comments: Please PDF and PROVIDE J FLAGS

405

CHAIN OF CUSTODY FORM

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399
 Project # 17221
 Project Location 1401 West Winton, Hayward
 Sampler: Greg Munsell

	Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260			
TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup			
CAM 17 Metals			
SVOC by EPA Method 8270			
HCD *			
B-25, 1.5-2	X X X		
B-26, 0.5-1	X X X		COMPOSITE
B-27, 0.5-1	X X X		
B-28, 0.5-1	X X X		
B-28, 1.5-2	X X X		
B-29, 0.5-1	X X X		COMPOSITE
B-30, 0.5-1	X X X		
B-31, 5.5-6	X X X		
B-25, 2	X		
B-26, 1	X		COMPOSITE
B-27, 1	X		
B-28, 1	X		
B-28, 2	X		
B-29, 1	X		COMPOSITE
B-30, 1	X		
B-31, 6	X		

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-25, 1.5-2		3/9/2018	0742	1	Tube	X							X	
B-26, 0.5-1		3/8/2018	1118	1	Tube	X							X	
B-27, 0.5-1		3/8/2018	1121	1	Tube	X							X	
B-28, 0.5-1		3/8/2018	1124	1	Tube	X							X	
B-28, 1.5-2		3/9/2018	0752	1	Tube	X							X	
B-29, 0.5-1		3/8/2018	1144	1	Tube	X							X	
B-30, 0.5-1		3/8/2018	1147	1	Tube	X							X	
B-31, 5.5-6		3/9/2018	0823	1	Tube	X							X	
B-25, 2		3/9/2018	0742	1	Enc	X							X	
B-26, 1		3/8/2018	1059	1	Enc	X							X	
B-27, 1		3/8/2018	1121	1	Enc	X							X	
B-28, 1		3/8/2018	1124	1	Enc	X							X	
B-28, 2		3/9/2018	0752	1	Enc	X							X	
B-29, 1		3/8/2018	1144	1	Enc	X							X	
B-30, 1		3/8/2018	1147	1	Enc	X							X	
B-31, 6		3/9/2018	0823	1	Enc	X							X	

*B-26, 0.5-1 3/8/18 11:18 - hold *Gas and 8260 added to composite 3/13/18
 *ENCLOSURES placed on hold

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <i>Greg Munsell</i>	Date: <u>3/9/18</u>	Time: <u>1430</u>	Relieved by: <i>C Moore</i>	Date: <u>3/9/18</u>	Time: <u>1535</u>
Relinquished by: <i>C Moore</i>	Date: <u>3/9/18</u>	Time: <u>1535</u>	Relieved by: <i>Hubby</i>	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Relieved by: _____	Date: _____	Time: _____

ICE/t- Condition _____	Comments: Please PDF and PROVIDE J FLAGS
Head space absent _____	
Dechlorinated in lab _____	
Appropriate containers _____	
Preserved in Lab _____	
Preservation _____	VOA's O&G Metals Other pH<2

*Extra ENCLOSE received, Added to chain and placed on hold.

S.A.S.



Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.**
 Project: **17221; 1401 West Winton, Hayward**
 WorkOrder No: **1803578** Matrix: Soil
 Carrier: Laurie Moore (MAI Courier)

Date and Time Received: **3/9/2018 15:55**
 Date Logged: **3/9/2018**
 Received by: **Alexandra Iniguez**
 Logged by: **Alexandra Iniguez**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 4.7°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
--	--	--

Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
--	--	--

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1803578 A

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Greg Munsell

Project P.O.:

Project: 17221; 1401 West Winton, Hayward

Project Received: 03/09/2018

Analytical Report reviewed & approved for release on 03/16/2018 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward
WorkOrder: 1803578 A

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC10 03141827.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/15/2018 00:26
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/15/2018 00:26
Benzene	ND	0.0050	1	03/15/2018 00:26
Bromobenzene	ND	0.0050	1	03/15/2018 00:26
Bromochloromethane	ND	0.0050	1	03/15/2018 00:26
Bromodichloromethane	ND	0.0050	1	03/15/2018 00:26
Bromoform	ND	0.0050	1	03/15/2018 00:26
Bromomethane	ND	0.0050	1	03/15/2018 00:26
2-Butanone (MEK)	ND	0.020	1	03/15/2018 00:26
t-Butyl alcohol (TBA)	ND	0.050	1	03/15/2018 00:26
n-Butyl benzene	ND	0.0050	1	03/15/2018 00:26
sec-Butyl benzene	ND	0.0050	1	03/15/2018 00:26
tert-Butyl benzene	ND	0.0050	1	03/15/2018 00:26
Carbon Disulfide	ND	0.0050	1	03/15/2018 00:26
Carbon Tetrachloride	ND	0.0050	1	03/15/2018 00:26
Chlorobenzene	ND	0.0050	1	03/15/2018 00:26
Chloroethane	ND	0.0050	1	03/15/2018 00:26
Chloroform	ND	0.0050	1	03/15/2018 00:26
Chloromethane	ND	0.0050	1	03/15/2018 00:26
2-Chlorotoluene	ND	0.0050	1	03/15/2018 00:26
4-Chlorotoluene	ND	0.0050	1	03/15/2018 00:26
Dibromochloromethane	ND	0.0050	1	03/15/2018 00:26
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/15/2018 00:26
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/15/2018 00:26
Dibromomethane	ND	0.0050	1	03/15/2018 00:26
1,2-Dichlorobenzene	ND	0.0050	1	03/15/2018 00:26
1,3-Dichlorobenzene	ND	0.0050	1	03/15/2018 00:26
1,4-Dichlorobenzene	ND	0.0050	1	03/15/2018 00:26
Dichlorodifluoromethane	ND	0.0050	1	03/15/2018 00:26
1,1-Dichloroethane	ND	0.0050	1	03/15/2018 00:26
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/15/2018 00:26
1,1-Dichloroethene	ND	0.0050	1	03/15/2018 00:26
cis-1,2-Dichloroethene	ND	0.0050	1	03/15/2018 00:26
trans-1,2-Dichloroethene	ND	0.0050	1	03/15/2018 00:26
1,2-Dichloropropane	ND	0.0050	1	03/15/2018 00:26
1,3-Dichloropropane	ND	0.0050	1	03/15/2018 00:26
2,2-Dichloropropane	ND	0.0050	1	03/15/2018 00:26

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC10 03141827.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/15/2018 00:26
cis-1,3-Dichloropropene	ND	0.0050	1	03/15/2018 00:26
trans-1,3-Dichloropropene	ND	0.0050	1	03/15/2018 00:26
Diisopropyl ether (DIPE)	ND	0.0050	1	03/15/2018 00:26
Ethylbenzene	ND	0.0050	1	03/15/2018 00:26
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/15/2018 00:26
Freon 113	ND	0.0050	1	03/15/2018 00:26
Hexachlorobutadiene	ND	0.0050	1	03/15/2018 00:26
Hexachloroethane	ND	0.0050	1	03/15/2018 00:26
2-Hexanone	ND	0.0050	1	03/15/2018 00:26
Isopropylbenzene	ND	0.0050	1	03/15/2018 00:26
4-Isopropyl toluene	ND	0.0050	1	03/15/2018 00:26
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/15/2018 00:26
Methylene chloride	ND	0.0050	1	03/15/2018 00:26
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/15/2018 00:26
Naphthalene	ND	0.0050	1	03/15/2018 00:26
n-Propyl benzene	ND	0.0050	1	03/15/2018 00:26
Styrene	ND	0.0050	1	03/15/2018 00:26
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/15/2018 00:26
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/15/2018 00:26
Tetrachloroethene	ND	0.0050	1	03/15/2018 00:26
Toluene	ND	0.0050	1	03/15/2018 00:26
1,2,3-Trichlorobenzene	ND	0.0050	1	03/15/2018 00:26
1,2,4-Trichlorobenzene	ND	0.0050	1	03/15/2018 00:26
1,1,1-Trichloroethane	ND	0.0050	1	03/15/2018 00:26
1,1,2-Trichloroethane	ND	0.0050	1	03/15/2018 00:26
Trichloroethene	ND	0.0050	1	03/15/2018 00:26
Trichlorofluoromethane	ND	0.0050	1	03/15/2018 00:26
1,2,3-Trichloropropane	ND	0.0050	1	03/15/2018 00:26
1,2,4-Trimethylbenzene	ND	0.0050	1	03/15/2018 00:26
1,3,5-Trimethylbenzene	ND	0.0050	1	03/15/2018 00:26
Vinyl Chloride	ND	0.0050	1	03/15/2018 00:26
Xylenes, Total	ND	0.0050	1	03/15/2018 00:26

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC10 03141827.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	82-136		03/15/2018 00:26
Toluene-d8	124	92-139		03/15/2018 00:26
4-BFB	96	82-135		03/15/2018 00:26
Benzene-d6	88	55-122		03/15/2018 00:26
Ethylbenzene-d10	99	58-141		03/15/2018 00:26
1,2-DCB-d4	75	51-107		03/15/2018 00:26

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC10 03141821.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 20:32
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 20:32
Benzene	ND	0.0050	1	03/14/2018 20:32
Bromobenzene	ND	0.0050	1	03/14/2018 20:32
Bromochloromethane	ND	0.0050	1	03/14/2018 20:32
Bromodichloromethane	ND	0.0050	1	03/14/2018 20:32
Bromoform	ND	0.0050	1	03/14/2018 20:32
Bromomethane	ND	0.0050	1	03/14/2018 20:32
2-Butanone (MEK)	ND	0.020	1	03/14/2018 20:32
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 20:32
n-Butyl benzene	ND	0.0050	1	03/14/2018 20:32
sec-Butyl benzene	ND	0.0050	1	03/14/2018 20:32
tert-Butyl benzene	ND	0.0050	1	03/14/2018 20:32
Carbon Disulfide	ND	0.0050	1	03/14/2018 20:32
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 20:32
Chlorobenzene	ND	0.0050	1	03/14/2018 20:32
Chloroethane	ND	0.0050	1	03/14/2018 20:32
Chloroform	ND	0.0050	1	03/14/2018 20:32
Chloromethane	ND	0.0050	1	03/14/2018 20:32
2-Chlorotoluene	ND	0.0050	1	03/14/2018 20:32
4-Chlorotoluene	ND	0.0050	1	03/14/2018 20:32
Dibromochloromethane	ND	0.0050	1	03/14/2018 20:32
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 20:32
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 20:32
Dibromomethane	ND	0.0050	1	03/14/2018 20:32
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 20:32
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 20:32
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 20:32
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 20:32
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 20:32
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 20:32
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 20:32
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 20:32
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 20:32
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 20:32
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 20:32
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 20:32

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC10 03141821.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 20:32
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 20:32
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 20:32
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 20:32
Ethylbenzene	ND	0.0050	1	03/14/2018 20:32
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 20:32
Freon 113	ND	0.0050	1	03/14/2018 20:32
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 20:32
Hexachloroethane	ND	0.0050	1	03/14/2018 20:32
2-Hexanone	ND	0.0050	1	03/14/2018 20:32
Isopropylbenzene	ND	0.0050	1	03/14/2018 20:32
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 20:32
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 20:32
Methylene chloride	ND	0.0050	1	03/14/2018 20:32
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 20:32
Naphthalene	ND	0.0050	1	03/14/2018 20:32
n-Propyl benzene	ND	0.0050	1	03/14/2018 20:32
Styrene	ND	0.0050	1	03/14/2018 20:32
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 20:32
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 20:32
Tetrachloroethene	ND	0.0050	1	03/14/2018 20:32
Toluene	ND	0.0050	1	03/14/2018 20:32
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 20:32
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 20:32
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 20:32
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 20:32
Trichloroethene	ND	0.0050	1	03/14/2018 20:32
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 20:32
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 20:32
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 20:32
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 20:32
Vinyl Chloride	ND	0.0050	1	03/14/2018 20:32
Xylenes, Total	ND	0.0050	1	03/14/2018 20:32

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC10 03141821.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	82-136		03/14/2018 20:32
Toluene-d8	124	92-139		03/14/2018 20:32
4-BFB	89	82-135		03/14/2018 20:32
Benzene-d6	94	55-122		03/14/2018 20:32
Ethylbenzene-d10	113	58-141		03/14/2018 20:32
1,2-DCB-d4	77	51-107		03/14/2018 20:32

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC10 03141822.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 21:11
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 21:11
Benzene	ND	0.0050	1	03/14/2018 21:11
Bromobenzene	ND	0.0050	1	03/14/2018 21:11
Bromochloromethane	ND	0.0050	1	03/14/2018 21:11
Bromodichloromethane	ND	0.0050	1	03/14/2018 21:11
Bromoform	ND	0.0050	1	03/14/2018 21:11
Bromomethane	ND	0.0050	1	03/14/2018 21:11
2-Butanone (MEK)	ND	0.020	1	03/14/2018 21:11
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 21:11
n-Butyl benzene	ND	0.0050	1	03/14/2018 21:11
sec-Butyl benzene	ND	0.0050	1	03/14/2018 21:11
tert-Butyl benzene	ND	0.0050	1	03/14/2018 21:11
Carbon Disulfide	ND	0.0050	1	03/14/2018 21:11
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 21:11
Chlorobenzene	ND	0.0050	1	03/14/2018 21:11
Chloroethane	ND	0.0050	1	03/14/2018 21:11
Chloroform	ND	0.0050	1	03/14/2018 21:11
Chloromethane	ND	0.0050	1	03/14/2018 21:11
2-Chlorotoluene	ND	0.0050	1	03/14/2018 21:11
4-Chlorotoluene	ND	0.0050	1	03/14/2018 21:11
Dibromochloromethane	ND	0.0050	1	03/14/2018 21:11
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 21:11
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 21:11
Dibromomethane	ND	0.0050	1	03/14/2018 21:11
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 21:11
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 21:11
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 21:11
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 21:11
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 21:11
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 21:11
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 21:11
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 21:11
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 21:11
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 21:11
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 21:11
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 21:11

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC10 03141822.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 21:11
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 21:11
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 21:11
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 21:11
Ethylbenzene	ND	0.0050	1	03/14/2018 21:11
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 21:11
Freon 113	ND	0.0050	1	03/14/2018 21:11
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 21:11
Hexachloroethane	ND	0.0050	1	03/14/2018 21:11
2-Hexanone	ND	0.0050	1	03/14/2018 21:11
Isopropylbenzene	ND	0.0050	1	03/14/2018 21:11
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 21:11
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 21:11
Methylene chloride	ND	0.0050	1	03/14/2018 21:11
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 21:11
Naphthalene	ND	0.0050	1	03/14/2018 21:11
n-Propyl benzene	ND	0.0050	1	03/14/2018 21:11
Styrene	ND	0.0050	1	03/14/2018 21:11
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 21:11
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 21:11
Tetrachloroethene	ND	0.0050	1	03/14/2018 21:11
Toluene	ND	0.0050	1	03/14/2018 21:11
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 21:11
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 21:11
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 21:11
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 21:11
Trichloroethene	ND	0.0050	1	03/14/2018 21:11
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 21:11
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 21:11
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 21:11
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 21:11
Vinyl Chloride	ND	0.0050	1	03/14/2018 21:11
Xylenes, Total	ND	0.0050	1	03/14/2018 21:11

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC10 03141822.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	94		82-136	03/14/2018 21:11
Toluene-d8	124		92-139	03/14/2018 21:11
4-BFB	93		82-135	03/14/2018 21:11
Benzene-d6	89		55-122	03/14/2018 21:11
Ethylbenzene-d10	105		58-141	03/14/2018 21:11
1,2-DCB-d4	75		51-107	03/14/2018 21:11

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC10 03141823.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 21:50
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 21:50
Benzene	ND	0.0050	1	03/14/2018 21:50
Bromobenzene	ND	0.0050	1	03/14/2018 21:50
Bromochloromethane	ND	0.0050	1	03/14/2018 21:50
Bromodichloromethane	ND	0.0050	1	03/14/2018 21:50
Bromoform	ND	0.0050	1	03/14/2018 21:50
Bromomethane	ND	0.0050	1	03/14/2018 21:50
2-Butanone (MEK)	ND	0.020	1	03/14/2018 21:50
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 21:50
n-Butyl benzene	ND	0.0050	1	03/14/2018 21:50
sec-Butyl benzene	ND	0.0050	1	03/14/2018 21:50
tert-Butyl benzene	ND	0.0050	1	03/14/2018 21:50
Carbon Disulfide	ND	0.0050	1	03/14/2018 21:50
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 21:50
Chlorobenzene	ND	0.0050	1	03/14/2018 21:50
Chloroethane	ND	0.0050	1	03/14/2018 21:50
Chloroform	ND	0.0050	1	03/14/2018 21:50
Chloromethane	ND	0.0050	1	03/14/2018 21:50
2-Chlorotoluene	ND	0.0050	1	03/14/2018 21:50
4-Chlorotoluene	ND	0.0050	1	03/14/2018 21:50
Dibromochloromethane	ND	0.0050	1	03/14/2018 21:50
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 21:50
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 21:50
Dibromomethane	ND	0.0050	1	03/14/2018 21:50
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 21:50
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 21:50
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 21:50
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 21:50
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 21:50
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 21:50
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 21:50
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 21:50
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 21:50
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 21:50
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 21:50
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 21:50

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC10 03141823.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 21:50
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 21:50
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 21:50
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 21:50
Ethylbenzene	ND	0.0050	1	03/14/2018 21:50
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 21:50
Freon 113	ND	0.0050	1	03/14/2018 21:50
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 21:50
Hexachloroethane	ND	0.0050	1	03/14/2018 21:50
2-Hexanone	ND	0.0050	1	03/14/2018 21:50
Isopropylbenzene	ND	0.0050	1	03/14/2018 21:50
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 21:50
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 21:50
Methylene chloride	ND	0.0050	1	03/14/2018 21:50
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 21:50
Naphthalene	ND	0.0050	1	03/14/2018 21:50
n-Propyl benzene	ND	0.0050	1	03/14/2018 21:50
Styrene	ND	0.0050	1	03/14/2018 21:50
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 21:50
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 21:50
Tetrachloroethene	ND	0.0050	1	03/14/2018 21:50
Toluene	ND	0.0050	1	03/14/2018 21:50
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 21:50
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 21:50
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 21:50
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 21:50
Trichloroethene	ND	0.0050	1	03/14/2018 21:50
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 21:50
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 21:50
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 21:50
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 21:50
Vinyl Chloride	ND	0.0050	1	03/14/2018 21:50
Xylenes, Total	ND	0.0050	1	03/14/2018 21:50

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC10 03141823.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	82-136		03/14/2018 21:50
Toluene-d8	123	92-139		03/14/2018 21:50
4-BFB	87	82-135		03/14/2018 21:50
Benzene-d6	92	55-122		03/14/2018 21:50
Ethylbenzene-d10	108	58-141		03/14/2018 21:50
1,2-DCB-d4	79	51-107		03/14/2018 21:50

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC10 03141809.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 12:32
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 12:32
Benzene	ND	0.0050	1	03/14/2018 12:32
Bromobenzene	ND	0.0050	1	03/14/2018 12:32
Bromochloromethane	ND	0.0050	1	03/14/2018 12:32
Bromodichloromethane	ND	0.0050	1	03/14/2018 12:32
Bromoform	ND	0.0050	1	03/14/2018 12:32
Bromomethane	ND	0.0050	1	03/14/2018 12:32
2-Butanone (MEK)	ND	0.020	1	03/14/2018 12:32
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 12:32
n-Butyl benzene	ND	0.0050	1	03/14/2018 12:32
sec-Butyl benzene	ND	0.0050	1	03/14/2018 12:32
tert-Butyl benzene	ND	0.0050	1	03/14/2018 12:32
Carbon Disulfide	ND	0.0050	1	03/14/2018 12:32
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 12:32
Chlorobenzene	ND	0.0050	1	03/14/2018 12:32
Chloroethane	ND	0.0050	1	03/14/2018 12:32
Chloroform	ND	0.0050	1	03/14/2018 12:32
Chloromethane	ND	0.0050	1	03/14/2018 12:32
2-Chlorotoluene	ND	0.0050	1	03/14/2018 12:32
4-Chlorotoluene	ND	0.0050	1	03/14/2018 12:32
Dibromochloromethane	ND	0.0050	1	03/14/2018 12:32
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 12:32
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 12:32
Dibromomethane	ND	0.0050	1	03/14/2018 12:32
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 12:32
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 12:32
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 12:32
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 12:32
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 12:32
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 12:32
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 12:32
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 12:32
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 12:32
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 12:32
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 12:32
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 12:32

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC10 03141809.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 12:32
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 12:32
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 12:32
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 12:32
Ethylbenzene	ND	0.0050	1	03/14/2018 12:32
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 12:32
Freon 113	ND	0.0050	1	03/14/2018 12:32
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 12:32
Hexachloroethane	ND	0.0050	1	03/14/2018 12:32
2-Hexanone	ND	0.0050	1	03/14/2018 12:32
Isopropylbenzene	ND	0.0050	1	03/14/2018 12:32
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 12:32
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 12:32
Methylene chloride	ND	0.0050	1	03/14/2018 12:32
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 12:32
Naphthalene	ND	0.0050	1	03/14/2018 12:32
n-Propyl benzene	ND	0.0050	1	03/14/2018 12:32
Styrene	ND	0.0050	1	03/14/2018 12:32
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 12:32
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 12:32
Tetrachloroethene	ND	0.0050	1	03/14/2018 12:32
Toluene	ND	0.0050	1	03/14/2018 12:32
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 12:32
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 12:32
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 12:32
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 12:32
Trichloroethene	ND	0.0050	1	03/14/2018 12:32
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 12:32
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 12:32
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 12:32
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 12:32
Vinyl Chloride	ND	0.0050	1	03/14/2018 12:32
Xylenes, Total	ND	0.0050	1	03/14/2018 12:32

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC10 03141809.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	96	82-136		03/14/2018 12:32
Toluene-d8	124	92-139		03/14/2018 12:32
4-BFB	96	82-135		03/14/2018 12:32
Benzene-d6	97	55-122		03/14/2018 12:32
Ethylbenzene-d10	114	58-141		03/14/2018 12:32
1,2-DCB-d4	82	51-107		03/14/2018 12:32

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC10 03141815.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 16:31
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 16:31
Benzene	ND	0.0050	1	03/14/2018 16:31
Bromobenzene	ND	0.0050	1	03/14/2018 16:31
Bromochloromethane	ND	0.0050	1	03/14/2018 16:31
Bromodichloromethane	ND	0.0050	1	03/14/2018 16:31
Bromoform	ND	0.0050	1	03/14/2018 16:31
Bromomethane	ND	0.0050	1	03/14/2018 16:31
2-Butanone (MEK)	ND	0.020	1	03/14/2018 16:31
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 16:31
n-Butyl benzene	ND	0.0050	1	03/14/2018 16:31
sec-Butyl benzene	ND	0.0050	1	03/14/2018 16:31
tert-Butyl benzene	ND	0.0050	1	03/14/2018 16:31
Carbon Disulfide	ND	0.0050	1	03/14/2018 16:31
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 16:31
Chlorobenzene	ND	0.0050	1	03/14/2018 16:31
Chloroethane	ND	0.0050	1	03/14/2018 16:31
Chloroform	ND	0.0050	1	03/14/2018 16:31
Chloromethane	ND	0.0050	1	03/14/2018 16:31
2-Chlorotoluene	ND	0.0050	1	03/14/2018 16:31
4-Chlorotoluene	ND	0.0050	1	03/14/2018 16:31
Dibromochloromethane	ND	0.0050	1	03/14/2018 16:31
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 16:31
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 16:31
Dibromomethane	ND	0.0050	1	03/14/2018 16:31
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 16:31
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 16:31
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 16:31
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 16:31
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 16:31
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 16:31
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 16:31
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 16:31
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 16:31
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 16:31
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 16:31
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 16:31

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC10 03141815.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 16:31
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 16:31
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 16:31
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 16:31
Ethylbenzene	ND	0.0050	1	03/14/2018 16:31
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 16:31
Freon 113	ND	0.0050	1	03/14/2018 16:31
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 16:31
Hexachloroethane	ND	0.0050	1	03/14/2018 16:31
2-Hexanone	ND	0.0050	1	03/14/2018 16:31
Isopropylbenzene	ND	0.0050	1	03/14/2018 16:31
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 16:31
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 16:31
Methylene chloride	ND	0.0050	1	03/14/2018 16:31
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 16:31
Naphthalene	ND	0.0050	1	03/14/2018 16:31
n-Propyl benzene	ND	0.0050	1	03/14/2018 16:31
Styrene	ND	0.0050	1	03/14/2018 16:31
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 16:31
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 16:31
Tetrachloroethene	ND	0.0050	1	03/14/2018 16:31
Toluene	ND	0.0050	1	03/14/2018 16:31
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 16:31
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 16:31
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 16:31
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 16:31
Trichloroethene	ND	0.0050	1	03/14/2018 16:31
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 16:31
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 16:31
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 16:31
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 16:31
Vinyl Chloride	ND	0.0050	1	03/14/2018 16:31
Xylenes, Total	ND	0.0050	1	03/14/2018 16:31

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC10 03141815.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	82-136		03/14/2018 16:31
Toluene-d8	124	92-139		03/14/2018 16:31
4-BFB	92	82-135		03/14/2018 16:31
Benzene-d6	95	55-122		03/14/2018 16:31
Ethylbenzene-d10	116	58-141		03/14/2018 16:31
1,2-DCB-d4	79	51-107		03/14/2018 16:31

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC10 03141824.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 22:29
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 22:29
Benzene	ND	0.0050	1	03/14/2018 22:29
Bromobenzene	ND	0.0050	1	03/14/2018 22:29
Bromochloromethane	ND	0.0050	1	03/14/2018 22:29
Bromodichloromethane	ND	0.0050	1	03/14/2018 22:29
Bromoform	ND	0.0050	1	03/14/2018 22:29
Bromomethane	ND	0.0050	1	03/14/2018 22:29
2-Butanone (MEK)	ND	0.020	1	03/14/2018 22:29
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 22:29
n-Butyl benzene	ND	0.0050	1	03/14/2018 22:29
sec-Butyl benzene	ND	0.0050	1	03/14/2018 22:29
tert-Butyl benzene	ND	0.0050	1	03/14/2018 22:29
Carbon Disulfide	ND	0.0050	1	03/14/2018 22:29
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 22:29
Chlorobenzene	ND	0.0050	1	03/14/2018 22:29
Chloroethane	ND	0.0050	1	03/14/2018 22:29
Chloroform	ND	0.0050	1	03/14/2018 22:29
Chloromethane	ND	0.0050	1	03/14/2018 22:29
2-Chlorotoluene	ND	0.0050	1	03/14/2018 22:29
4-Chlorotoluene	ND	0.0050	1	03/14/2018 22:29
Dibromochloromethane	ND	0.0050	1	03/14/2018 22:29
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 22:29
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 22:29
Dibromomethane	ND	0.0050	1	03/14/2018 22:29
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 22:29
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 22:29
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 22:29
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 22:29
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 22:29
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 22:29
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 22:29
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 22:29
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 22:29
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 22:29
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 22:29
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 22:29

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC10 03141824.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 22:29
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 22:29
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 22:29
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 22:29
Ethylbenzene	ND	0.0050	1	03/14/2018 22:29
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 22:29
Freon 113	ND	0.0050	1	03/14/2018 22:29
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 22:29
Hexachloroethane	ND	0.0050	1	03/14/2018 22:29
2-Hexanone	ND	0.0050	1	03/14/2018 22:29
Isopropylbenzene	ND	0.0050	1	03/14/2018 22:29
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 22:29
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 22:29
Methylene chloride	ND	0.0050	1	03/14/2018 22:29
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 22:29
Naphthalene	ND	0.0050	1	03/14/2018 22:29
n-Propyl benzene	ND	0.0050	1	03/14/2018 22:29
Styrene	ND	0.0050	1	03/14/2018 22:29
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 22:29
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 22:29
Tetrachloroethene	ND	0.0050	1	03/14/2018 22:29
Toluene	ND	0.0050	1	03/14/2018 22:29
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 22:29
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 22:29
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 22:29
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 22:29
Trichloroethene	ND	0.0050	1	03/14/2018 22:29
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 22:29
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 22:29
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 22:29
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 22:29
Vinyl Chloride	ND	0.0050	1	03/14/2018 22:29
Xylenes, Total	ND	0.0050	1	03/14/2018 22:29

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC10 03141824.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	82-136		03/14/2018 22:29
Toluene-d8	124	92-139		03/14/2018 22:29
4-BFB	88	82-135		03/14/2018 22:29
Benzene-d6	97	55-122		03/14/2018 22:29
Ethylbenzene-d10	117	58-141		03/14/2018 22:29
1,2-DCB-d4	83	51-107		03/14/2018 22:29

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC10 03141825.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 23:08
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 23:08
Benzene	ND	0.0050	1	03/14/2018 23:08
Bromobenzene	ND	0.0050	1	03/14/2018 23:08
Bromochloromethane	ND	0.0050	1	03/14/2018 23:08
Bromodichloromethane	ND	0.0050	1	03/14/2018 23:08
Bromoform	ND	0.0050	1	03/14/2018 23:08
Bromomethane	ND	0.0050	1	03/14/2018 23:08
2-Butanone (MEK)	ND	0.020	1	03/14/2018 23:08
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 23:08
n-Butyl benzene	ND	0.0050	1	03/14/2018 23:08
sec-Butyl benzene	ND	0.0050	1	03/14/2018 23:08
tert-Butyl benzene	ND	0.0050	1	03/14/2018 23:08
Carbon Disulfide	ND	0.0050	1	03/14/2018 23:08
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 23:08
Chlorobenzene	ND	0.0050	1	03/14/2018 23:08
Chloroethane	ND	0.0050	1	03/14/2018 23:08
Chloroform	ND	0.0050	1	03/14/2018 23:08
Chloromethane	ND	0.0050	1	03/14/2018 23:08
2-Chlorotoluene	ND	0.0050	1	03/14/2018 23:08
4-Chlorotoluene	ND	0.0050	1	03/14/2018 23:08
Dibromochloromethane	ND	0.0050	1	03/14/2018 23:08
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 23:08
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 23:08
Dibromomethane	ND	0.0050	1	03/14/2018 23:08
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 23:08
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 23:08
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 23:08
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 23:08
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 23:08
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 23:08
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 23:08
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 23:08
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 23:08
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 23:08
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 23:08
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 23:08

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC10 03141825.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 23:08
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 23:08
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 23:08
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 23:08
Ethylbenzene	ND	0.0050	1	03/14/2018 23:08
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 23:08
Freon 113	ND	0.0050	1	03/14/2018 23:08
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 23:08
Hexachloroethane	ND	0.0050	1	03/14/2018 23:08
2-Hexanone	ND	0.0050	1	03/14/2018 23:08
Isopropylbenzene	ND	0.0050	1	03/14/2018 23:08
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 23:08
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 23:08
Methylene chloride	ND	0.0050	1	03/14/2018 23:08
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 23:08
Naphthalene	ND	0.0050	1	03/14/2018 23:08
n-Propyl benzene	ND	0.0050	1	03/14/2018 23:08
Styrene	ND	0.0050	1	03/14/2018 23:08
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 23:08
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 23:08
Tetrachloroethene	ND	0.0050	1	03/14/2018 23:08
Toluene	ND	0.0050	1	03/14/2018 23:08
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 23:08
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 23:08
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 23:08
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 23:08
Trichloroethene	ND	0.0050	1	03/14/2018 23:08
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 23:08
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 23:08
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 23:08
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 23:08
Vinyl Chloride	ND	0.0050	1	03/14/2018 23:08
Xylenes, Total	ND	0.0050	1	03/14/2018 23:08

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC10 03141825.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	82-136		03/14/2018 23:08
Toluene-d8	123	92-139		03/14/2018 23:08
4-BFB	90	82-135		03/14/2018 23:08
Benzene-d6	95	55-122		03/14/2018 23:08
Ethylbenzene-d10	114	58-141		03/14/2018 23:08
1,2-DCB-d4	81	51-107		03/14/2018 23:08

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC10 03141816.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 17:11
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 17:11
Benzene	ND	0.0050	1	03/14/2018 17:11
Bromobenzene	ND	0.0050	1	03/14/2018 17:11
Bromochloromethane	ND	0.0050	1	03/14/2018 17:11
Bromodichloromethane	ND	0.0050	1	03/14/2018 17:11
Bromoform	ND	0.0050	1	03/14/2018 17:11
Bromomethane	ND	0.0050	1	03/14/2018 17:11
2-Butanone (MEK)	ND	0.020	1	03/14/2018 17:11
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 17:11
n-Butyl benzene	ND	0.0050	1	03/14/2018 17:11
sec-Butyl benzene	ND	0.0050	1	03/14/2018 17:11
tert-Butyl benzene	ND	0.0050	1	03/14/2018 17:11
Carbon Disulfide	ND	0.0050	1	03/14/2018 17:11
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 17:11
Chlorobenzene	ND	0.0050	1	03/14/2018 17:11
Chloroethane	ND	0.0050	1	03/14/2018 17:11
Chloroform	ND	0.0050	1	03/14/2018 17:11
Chloromethane	ND	0.0050	1	03/14/2018 17:11
2-Chlorotoluene	ND	0.0050	1	03/14/2018 17:11
4-Chlorotoluene	ND	0.0050	1	03/14/2018 17:11
Dibromochloromethane	ND	0.0050	1	03/14/2018 17:11
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 17:11
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 17:11
Dibromomethane	ND	0.0050	1	03/14/2018 17:11
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 17:11
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 17:11
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 17:11
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 17:11
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 17:11
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 17:11
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 17:11
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 17:11
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 17:11
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 17:11
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 17:11
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 17:11

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC10 03141816.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 17:11
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 17:11
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 17:11
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 17:11
Ethylbenzene	ND	0.0050	1	03/14/2018 17:11
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 17:11
Freon 113	ND	0.0050	1	03/14/2018 17:11
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 17:11
Hexachloroethane	ND	0.0050	1	03/14/2018 17:11
2-Hexanone	ND	0.0050	1	03/14/2018 17:11
Isopropylbenzene	ND	0.0050	1	03/14/2018 17:11
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 17:11
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 17:11
Methylene chloride	ND	0.0050	1	03/14/2018 17:11
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 17:11
Naphthalene	ND	0.0050	1	03/14/2018 17:11
n-Propyl benzene	ND	0.0050	1	03/14/2018 17:11
Styrene	ND	0.0050	1	03/14/2018 17:11
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 17:11
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 17:11
Tetrachloroethene	ND	0.0050	1	03/14/2018 17:11
Toluene	ND	0.0050	1	03/14/2018 17:11
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 17:11
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 17:11
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 17:11
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 17:11
Trichloroethene	ND	0.0050	1	03/14/2018 17:11
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 17:11
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 17:11
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 17:11
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 17:11
Vinyl Chloride	ND	0.0050	1	03/14/2018 17:11
Xylenes, Total	ND	0.0050	1	03/14/2018 17:11

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC10 03141816.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	94	82-136		03/14/2018 17:11
Toluene-d8	121	92-139		03/14/2018 17:11
4-BFB	90	82-135		03/14/2018 17:11
Benzene-d6	90	55-122		03/14/2018 17:11
Ethylbenzene-d10	106	58-141		03/14/2018 17:11
1,2-DCB-d4	76	51-107		03/14/2018 17:11

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC10 03141826.D	154563

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	03/14/2018 23:47
tert-Amyl methyl ether (TAME)	ND	0.0050	1	03/14/2018 23:47
Benzene	ND	0.0050	1	03/14/2018 23:47
Bromobenzene	ND	0.0050	1	03/14/2018 23:47
Bromochloromethane	ND	0.0050	1	03/14/2018 23:47
Bromodichloromethane	ND	0.0050	1	03/14/2018 23:47
Bromoform	ND	0.0050	1	03/14/2018 23:47
Bromomethane	ND	0.0050	1	03/14/2018 23:47
2-Butanone (MEK)	ND	0.020	1	03/14/2018 23:47
t-Butyl alcohol (TBA)	ND	0.050	1	03/14/2018 23:47
n-Butyl benzene	ND	0.0050	1	03/14/2018 23:47
sec-Butyl benzene	ND	0.0050	1	03/14/2018 23:47
tert-Butyl benzene	ND	0.0050	1	03/14/2018 23:47
Carbon Disulfide	ND	0.0050	1	03/14/2018 23:47
Carbon Tetrachloride	ND	0.0050	1	03/14/2018 23:47
Chlorobenzene	ND	0.0050	1	03/14/2018 23:47
Chloroethane	ND	0.0050	1	03/14/2018 23:47
Chloroform	ND	0.0050	1	03/14/2018 23:47
Chloromethane	ND	0.0050	1	03/14/2018 23:47
2-Chlorotoluene	ND	0.0050	1	03/14/2018 23:47
4-Chlorotoluene	ND	0.0050	1	03/14/2018 23:47
Dibromochloromethane	ND	0.0050	1	03/14/2018 23:47
1,2-Dibromo-3-chloropropane	ND	0.0040	1	03/14/2018 23:47
1,2-Dibromoethane (EDB)	ND	0.0040	1	03/14/2018 23:47
Dibromomethane	ND	0.0050	1	03/14/2018 23:47
1,2-Dichlorobenzene	ND	0.0050	1	03/14/2018 23:47
1,3-Dichlorobenzene	ND	0.0050	1	03/14/2018 23:47
1,4-Dichlorobenzene	ND	0.0050	1	03/14/2018 23:47
Dichlorodifluoromethane	ND	0.0050	1	03/14/2018 23:47
1,1-Dichloroethane	ND	0.0050	1	03/14/2018 23:47
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	03/14/2018 23:47
1,1-Dichloroethene	ND	0.0050	1	03/14/2018 23:47
cis-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 23:47
trans-1,2-Dichloroethene	ND	0.0050	1	03/14/2018 23:47
1,2-Dichloropropane	ND	0.0050	1	03/14/2018 23:47
1,3-Dichloropropane	ND	0.0050	1	03/14/2018 23:47
2,2-Dichloropropane	ND	0.0050	1	03/14/2018 23:47

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC10 03141826.D	154563

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	03/14/2018 23:47
cis-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 23:47
trans-1,3-Dichloropropene	ND	0.0050	1	03/14/2018 23:47
Diisopropyl ether (DIPE)	ND	0.0050	1	03/14/2018 23:47
Ethylbenzene	ND	0.0050	1	03/14/2018 23:47
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	03/14/2018 23:47
Freon 113	ND	0.0050	1	03/14/2018 23:47
Hexachlorobutadiene	ND	0.0050	1	03/14/2018 23:47
Hexachloroethane	ND	0.0050	1	03/14/2018 23:47
2-Hexanone	ND	0.0050	1	03/14/2018 23:47
Isopropylbenzene	ND	0.0050	1	03/14/2018 23:47
4-Isopropyl toluene	ND	0.0050	1	03/14/2018 23:47
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	03/14/2018 23:47
Methylene chloride	ND	0.0050	1	03/14/2018 23:47
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	03/14/2018 23:47
Naphthalene	ND	0.0050	1	03/14/2018 23:47
n-Propyl benzene	ND	0.0050	1	03/14/2018 23:47
Styrene	ND	0.0050	1	03/14/2018 23:47
1,1,1,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 23:47
1,1,2,2-Tetrachloroethane	ND	0.0050	1	03/14/2018 23:47
Tetrachloroethene	ND	0.0050	1	03/14/2018 23:47
Toluene	ND	0.0050	1	03/14/2018 23:47
1,2,3-Trichlorobenzene	ND	0.0050	1	03/14/2018 23:47
1,2,4-Trichlorobenzene	ND	0.0050	1	03/14/2018 23:47
1,1,1-Trichloroethane	ND	0.0050	1	03/14/2018 23:47
1,1,2-Trichloroethane	ND	0.0050	1	03/14/2018 23:47
Trichloroethene	ND	0.0050	1	03/14/2018 23:47
Trichlorofluoromethane	ND	0.0050	1	03/14/2018 23:47
1,2,3-Trichloropropane	ND	0.0050	1	03/14/2018 23:47
1,2,4-Trimethylbenzene	ND	0.0050	1	03/14/2018 23:47
1,3,5-Trimethylbenzene	ND	0.0050	1	03/14/2018 23:47
Vinyl Chloride	ND	0.0050	1	03/14/2018 23:47
Xylenes, Total	ND	0.0050	1	03/14/2018 23:47

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC10 03141826.D	154563

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	96	82-136		03/14/2018 23:47
Toluene-d8	122	92-139		03/14/2018 23:47
4-BFB	89	82-135		03/14/2018 23:47
Benzene-d6	87	55-122		03/14/2018 23:47
Ethylbenzene-d10	102	58-141		03/14/2018 23:47
1,2-DCB-d4	77	51-107		03/14/2018 23:47

Analyst(s): KF



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-1 & 2 COMP	1803578-001A	Soil	03/09/2018 08:20	GC10 03141827.D	154563
<u>Analytes</u>					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	03/15/2018 00:26
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	93		82-136		03/15/2018 00:26
Benzene-D6	89		55-122		03/15/2018 00:26
<u>Analyst(s):</u> KF					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-3,4 & 5 COMP	1803578-002A	Soil	03/09/2018 08:56	GC10 03141821.D	154563
<u>Analytes</u>					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	03/14/2018 20:32
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	92		82-136		03/14/2018 20:32
Benzene-D6	95		55-122		03/14/2018 20:32
<u>Analyst(s):</u> KF					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-6,7,8 COMP	1803578-005A	Soil	03/08/2018 09:22	GC10 03141822.D	154563
<u>Analytes</u>					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	03/14/2018 21:11
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	92		82-136		03/14/2018 21:11
Benzene-D6	91		55-122		03/14/2018 21:11
<u>Analyst(s):</u> KF					

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-9,10,11,12 COMP	1803578-006A	Soil	03/08/2018 10:14	GC10 03141823.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 21:50

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	93	82-136	03/14/2018 21:50
Benzene-D6	92	55-122	03/14/2018 21:50

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-13,14,15 COMP	1803578-009A	Soil	03/08/2018 09:26	GC10 03141809.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 12:32

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	94	82-136	03/14/2018 12:32
Benzene-D6	99	55-122	03/14/2018 12:32

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-16,17,18 COMP	1803578-010A	Soil	03/08/2018 09:55	GC10 03141815.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 16:31

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	93	82-136	03/14/2018 16:31
Benzene-D6	96	55-122	03/14/2018 16:31

Analyst(s): KF

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-19,20,21,22 COMP	1803578-013A	Soil	03/08/2018 10:59	GC10 03141824.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 22:29

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	94	82-136	03/14/2018 22:29
Benzene-D6	98	55-122	03/14/2018 22:29

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-22,23,24,25 COMP	1803578-014A	Soil	03/09/2018 10:29	GC10 03141825.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 23:08

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	93	82-136	03/14/2018 23:08
Benzene-D6	95	55-122	03/14/2018 23:08

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	GC10 03141816.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 17:11

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	93	82-136	03/14/2018 17:11
Benzene-D6	89	55-122	03/14/2018 17:11

Analyst(s): KF

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/13/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-28,29,30,31 COMP	1803578-018A	Soil	03/09/2018 07:52	GC10 03141826.D	154563

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	03/14/2018 23:47

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	95	82-136	03/14/2018 23:47
Benzene-D6	87	55-122	03/14/2018 23:47

Analyst(s): KF



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.913	0.10	1	-	91	48-156
tert-Amyl methyl ether (TAME)	ND	0.0359	0.0050	0.050	-	72	56-115
Benzene	ND	0.0413	0.0050	0.050	-	83	63-131
Bromobenzene	ND	0.0431	0.0050	0.050	-	86	66-127
Bromochloromethane	ND	0.0391	0.0050	0.050	-	78	64-124
Bromodichloromethane	ND	0.0391	0.0050	0.050	-	78	64-120
Bromoform	ND	0.0353	0.0050	0.050	-	71	48-92
Bromomethane	ND	0.0379	0.0050	0.050	-	76	25-163
2-Butanone (MEK)	ND	0.174	0.020	0.20	-	87	51-133
t-Butyl alcohol (TBA)	ND	0.163	0.050	0.20	-	81	52-129
n-Butyl benzene	ND	0.0581	0.0050	0.050	-	116	83-200
sec-Butyl benzene	ND	0.0575	0.0050	0.050	-	115	81-199
tert-Butyl benzene	ND	0.0555	0.0050	0.050	-	111	79-178
Carbon Disulfide	ND	0.0391	0.0050	0.050	-	78	64-136
Carbon Tetrachloride	ND	0.0424	0.0050	0.050	-	85	66-140
Chlorobenzene	ND	0.0413	0.0050	0.050	-	83	73-116
Chloroethane	ND	0.0344	0.0050	0.050	-	69	35-147
Chloroform	ND	0.0407	0.0050	0.050	-	81	65-130
Chloromethane	ND	0.0293	0.0050	0.050	-	59	30-137
2-Chlorotoluene	ND	0.0516	0.0050	0.050	-	103	75-152
4-Chlorotoluene	ND	0.0493	0.0050	0.050	-	99	71-148
Dibromochloromethane	ND	0.0375	0.0050	0.050	-	75	61-106
1,2-Dibromo-3-chloropropane	ND	0.0116	0.0040	0.020	-	58	36-120
1,2-Dibromoethane (EDB)	ND	0.0391	0.0040	0.050	-	78	67-118
Dibromomethane	ND	0.0381	0.0050	0.050	-	76	61-116
1,2-Dichlorobenzene	ND	0.0357	0.0050	0.050	-	71	59-106
1,3-Dichlorobenzene	ND	0.0416	0.0050	0.050	-	83	75-129
1,4-Dichlorobenzene	ND	0.0398	0.0050	0.050	-	80	66-127
Dichlorodifluoromethane	ND	0.0132	0.0050	0.050	-	26	13-74
1,1-Dichloroethane	ND	0.0415	0.0050	0.050	-	83	65-134
1,2-Dichloroethane (1,2-DCA)	ND	0.0392	0.0040	0.050	-	78	57-131
1,1-Dichloroethene	ND	0.0410	0.0050	0.050	-	82	62-127
cis-1,2-Dichloroethene	ND	0.0416	0.0050	0.050	-	83	66-130
trans-1,2-Dichloroethene	ND	0.0417	0.0050	0.050	-	83	60-131
1,2-Dichloropropane	ND	0.0419	0.0050	0.050	-	84	63-127
1,3-Dichloropropane	ND	0.0402	0.0050	0.050	-	80	68-124
2,2-Dichloropropane	ND	0.0468	0.0050	0.050	-	94	63-150

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0431	0.0050	0.050	-	86	67-134
cis-1,3-Dichloropropene	ND	0.0444	0.0050	0.050	-	89	65-138
trans-1,3-Dichloropropene	ND	0.0444	0.0050	0.050	-	89	66-124
Diisopropyl ether (DIPE)	ND	0.0405	0.0050	0.050	-	81	58-129
Ethylbenzene	ND	0.0438	0.0050	0.050	-	88	73-145
Ethyl tert-butyl ether (ETBE)	ND	0.0396	0.0050	0.050	-	79	62-125
Freon 113	ND	0.0367	0.0050	0.050	-	73	55-116
Hexachlorobutadiene	ND	0.0517	0.0050	0.050	-	103	75-178
Hexachloroethane	ND	0.0535	0.0050	0.050	-	107	75-152
2-Hexanone	ND	0.0406	0.0050	0.050	-	81	41-113
Isopropylbenzene	ND	0.0475	0.0050	0.050	-	95	67-172
4-Isopropyl toluene	ND	0.0556	0.0050	0.050	-	111	88-171
Methyl-t-butyl ether (MTBE)	ND	0.0382	0.0050	0.050	-	76	58-122
Methylene chloride	ND	0.0408	0.0050	0.050	-	82	57-140
4-Methyl-2-pentanone (MIBK)	ND	0.0357	0.0050	0.050	-	71	42-117
Naphthalene	ND	0.0240	0.0050	0.050	-	48	29-65
n-Propyl benzene	ND	0.0583	0.0050	0.050	-	117	85-174
Styrene	ND	0.0417	0.0050	0.050	-	83	63-126
1,1,1,2-Tetrachloroethane	ND	0.0402	0.0050	0.050	-	80	68-131
1,1,2,2-Tetrachloroethane	ND	0.0387	0.0050	0.050	-	77	45-121
Tetrachloroethene	ND	0.0413	0.0050	0.050	-	83	65-150
Toluene	ND	0.0407	0.0050	0.050	-	81	72-135
1,2,3-Trichlorobenzene	ND	0.0280	0.0050	0.050	-	56	35-80
1,2,4-Trichlorobenzene	ND	0.0362	0.0050	0.050	-	72	45-103
1,1,1-Trichloroethane	ND	0.0419	0.0050	0.050	-	84	67-137
1,1,2-Trichloroethane	ND	0.0393	0.0050	0.050	-	79	67-117
Trichloroethene	ND	0.0424	0.0050	0.050	-	85	62-135
Trichlorofluoromethane	ND	0.0367	0.0050	0.050	-	73	56-124
1,2,3-Trichloropropane	ND	0.0472	0.0050	0.050	-	94	58-133
1,2,4-Trimethylbenzene	ND	0.0566	0.0050	0.050	-	113	78-161
1,3,5-Trimethylbenzene	ND	0.0613	0.0050	0.050	-	123	85-170
Vinyl Chloride	ND	0.0310	0.0050	0.050	-	62	32-142
Xylenes, Total	ND	0.131	0.0050	0.15	-	87	70-137

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.113	0.114		0.12	90	91	87-127
Toluene-d8	0.130	0.131		0.12	104	105	93-141
4-BFB	0.0157	0.0158		0.012	125	126	84-137
Benzene-d6	0.104	0.0976		0.10	104	98	67-131
Ethylbenzene-d10	0.113	0.104		0.10	113	104	78-153
1,2-DCB-d4	0.0775	0.0767		0.10	77	77	63-109



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.844	0.829	1	ND	84	83	36-141	1.79	20
tert-Amyl methyl ether (TAME)	0.0349	0.0344	0.050	ND	70	69	46-105	1.44	20
Benzene	0.0395	0.0394	0.050	ND	79	79	46-124	0	20
Bromobenzene	0.0412	0.0416	0.050	ND	82	83	50-119	0.938	20
Bromochloromethane	0.0375	0.0366	0.050	ND	75	73	42-122	2.52	20
Bromodichloromethane	0.0378	0.0377	0.050	ND	76	75	48-112	0.263	20
Bromoform	0.0352	0.0345	0.050	ND	70	69	36-90	1.91	20
Bromomethane	0.0382	0.0349	0.050	ND	76	70	10-149	8.98	20
2-Butanone (MEK)	0.171	0.148	0.20	ND	85	74	43-114	14.6	20
t-Butyl alcohol (TBA)	0.154	0.153	0.20	ND	77	76	33-123	0.572	20
n-Butyl benzene	0.0545	0.0536	0.050	ND	109	107	40-185	1.61	20
sec-Butyl benzene	0.0550	0.0542	0.050	ND	110	108	40-183	1.52	20
tert-Butyl benzene	0.0525	0.0521	0.050	ND	105	104	44-168	0.752	20
Carbon Disulfide	0.0372	0.0368	0.050	ND	74	74	23-139	0	20
Carbon Tetrachloride	0.0408	0.0406	0.050	ND	82	81	43-133	0.617	20
Chlorobenzene	0.0392	0.0390	0.050	ND	78	78	51-115	0	20
Chloroethane	0.0372	0.0348	0.050	ND	74	70	16-138	6.83	20
Chloroform	0.0390	0.0388	0.050	ND	78	77	54-117	0.743	20
Chloromethane	0.0266	0.0260	0.050	ND	53	52	14-128	2.33	20
2-Chlorotoluene	0.0489	0.0490	0.050	ND	98	98	54-141	0	20
4-Chlorotoluene	0.0467	0.0467	0.050	ND	93	93	52-134	0	20
Dibromochloromethane	0.0356	0.0349	0.050	ND	71	70	46-102	2.03	20
1,2-Dibromo-3-chloropropane	0.0130	0.0118	0.020	ND	65	59	16-120	9.68	20
1,2-Dibromoethane (EDB)	0.0365	0.0360	0.050	ND	73	72	48-113	1.26	20
Dibromomethane	0.0362	0.0359	0.050	ND	72	72	44-110	0	20
1,2-Dichlorobenzene	0.0333	0.0332	0.050	ND	67	66	43-106	0.471	20
1,3-Dichlorobenzene	0.0391	0.0389	0.050	ND	78	78	49-128	0	20
1,4-Dichlorobenzene	0.0373	0.0370	0.050	ND	75	74	48-120	0.837	20
Dichlorodifluoromethane	0.0118	0.0115	0.050	ND	24	23	8-63	2.16	20
1,1-Dichloroethane	0.0401	0.0394	0.050	ND	80	79	50-122	1.75	20
1,2-Dichloroethane (1,2-DCA)	0.0372	0.0368	0.050	ND	74	74	46-116	0	20
1,1-Dichloroethene	0.0389	0.0386	0.050	ND	78	77	37-124	0.917	20
cis-1,2-Dichloroethene	0.0399	0.0397	0.050	ND	80	79	47-123	0.507	20
trans-1,2-Dichloroethene	0.0393	0.0394	0.050	ND	79	79	31-131	0	20
1,2-Dichloropropane	0.0404	0.0394	0.050	ND	81	79	50-116	2.43	20
1,3-Dichloropropane	0.0377	0.0373	0.050	ND	75	75	52-115	0	20
2,2-Dichloropropane	0.0446	0.0441	0.050	ND	89	88	43-137	1.09	20

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0411	0.0408	0.050	ND	82	82	43-126	0	20
cis-1,3-Dichloropropene	0.0412	0.0408	0.050	ND	82	82	35-134	0	20
trans-1,3-Dichloropropene	0.0411	0.0403	0.050	ND	82	81	35-124	1.98	20
Diisopropyl ether (DIPE)	0.0392	0.0387	0.050	ND	78	77	49-116	1.23	20
Ethylbenzene	0.0424	0.0418	0.050	ND	85	84	49-137	1.28	20
Ethyl tert-butyl ether (ETBE)	0.0380	0.0376	0.050	ND	76	75	50-113	1.08	20
Freon 113	0.0343	0.0339	0.050	ND	69	68	28-114	1.10	20
Hexachlorobutadiene	0.0478	0.0479	0.050	ND	96	96	22-180	0	20
Hexachloroethane	0.0502	0.0495	0.050	ND	100	99	28-158	1.38	20
2-Hexanone	0.0384	0.0385	0.050	ND	77	77	31-102	0	20
Isopropylbenzene	0.0455	0.0448	0.050	ND	91	90	50-153	1.42	20
4-Isopropyl toluene	0.0535	0.0536	0.050	ND	107	107	41-171	0	20
Methyl-t-butyl ether (MTBE)	0.0366	0.0361	0.050	ND	73	72	48-110	1.28	20
Methylene chloride	0.0386	0.0384	0.050	ND	77	77	42-127	0	20
4-Methyl-2-pentanone (MIBK)	0.0339	0.0334	0.050	ND	68	67	24-114	1.38	20
Naphthalene	0.0212	0.0208	0.050	ND	40	39	19-69	1.79	20
n-Propyl benzene	0.0548	0.0540	0.050	ND	110	108	46-168	1.48	20
Styrene	0.0401	0.0395	0.050	ND	80	79	42-122	1.37	20
1,1,1,2-Tetrachloroethane	0.0384	0.0382	0.050	ND	77	76	52-121	0.715	20
1,1,2,2-Tetrachloroethane	0.0396	0.0394	0.050	ND	79	79	27-116	0	20
Tetrachloroethene	0.0382	0.0379	0.050	ND	76	76	37-149	0	20
Toluene	0.0388	0.0383	0.050	ND	78	77	52-124	1.47	20
1,2,3-Trichlorobenzene	0.0261	0.0264	0.050	ND	52	53	20-86	1.21	20
1,2,4-Trichlorobenzene	0.0339	0.0335	0.050	ND	68	67	24-107	0.994	20
1,1,1-Trichloroethane	0.0401	0.0401	0.050	ND	80	80	48-128	0	20
1,1,2-Trichloroethane	0.0363	0.0358	0.050	ND	73	72	51-110	1.33	20
Trichloroethene	0.0394	0.0392	0.050	ND	79	78	42-128	0.507	20
Trichlorofluoromethane	0.0348	0.0348	0.050	ND	70	70	31-121	0	20
1,2,3-Trichloropropane	0.0465	0.0460	0.050	ND	93	92	50-115	1.27	20
1,2,4-Trimethylbenzene	0.0545	0.0540	0.050	ND	109	108	48-151	0.791	20
1,3,5-Trimethylbenzene	0.0584	0.0581	0.050	ND	117	116	51-159	0.586	20
Vinyl Chloride	0.0298	0.0293	0.050	ND	60	59	11-136	1.69	20
Xylenes, Total	0.128	0.127	0.15	ND	85	84	38-141	1.00	20

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.114	0.114	0.12		91	91	82-136	0	20
Toluene-d8	0.128	0.128	0.12		103	102	92-139	0.564	20
4-BFB	0.0156	0.0159	0.012		125	127	82-135	1.78	20
Benzene-d6	0.0933	0.0927	0.10		93	93	55-122	0	20
Ethylbenzene-d10	0.0990	0.0983	0.10		99	98	58-141	0.747	20
1,2-DCB-d4	0.0734	0.0737	0.10		73	74	51-107	0.335	20



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/12/18
Date Analyzed: 3/13/18 - 3/14/18
Instrument: GC10, GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 154563
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS/LCSD-154563
 1803625-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.25	-	-	-

Surrogate Recovery

Dibromofluoromethane	0.117		0.12	94	70-130
Benzene-D6	0.109		0.10	109	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	0.895	0.892	1	89	89	67-117	0	20

Surrogate Recovery

Dibromofluoromethane	0.119	0.118	0.12	95	94	87-127	0.693	20
Benzene-D6	0.111	0.108	0.10	111	108	67-131	2.36	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	N/A	N/A		N/A	N/A	N/A	-	N/A	-

Surrogate Recovery

Dibromofluoromethane	N/A	N/A			N/A	N/A	-	N/A	-
Benzene-D6	N/A	N/A			N/A	N/A	-	N/A	-



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803578 **A**

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz; andrew@era
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 03/09/2018

Date Logged: 03/09/2018

Date Add-On: 03/13/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1803578-001	B-1,1,2,2 COMP	Soil	3/9/2018 07:42	<input type="checkbox"/>	A	A											
1803578-002	B-3,4,4,5 COMP	Soil	3/9/2018 08:23	<input type="checkbox"/>	A	A											
1803578-005	B-6,7,8 COMP	Soil	3/8/2018 09:22	<input type="checkbox"/>	A	A											
1803578-006	B-9,10,11,12 COMP	Soil	3/8/2018 08:45	<input type="checkbox"/>	A	A											
1803578-009	B-13,14,15 COMP	Soil	3/8/2018 09:26	<input type="checkbox"/>	A	A											
1803578-010	B-16,17,18 COMP	Soil	3/8/2018 09:55	<input type="checkbox"/>	A	A											
1803578-013	B-19,20,21,22 COMP	Soil	3/8/2018 10:59	<input type="checkbox"/>	A	A											
1803578-014	B-22,23,24,25 COMP	Soil	3/9/2018 10:29	<input type="checkbox"/>	A	A											
1803578-017	B-25,26,27,28 COMP	Soil	3/9/2018 07:42	<input type="checkbox"/>	A	A											
1803578-018	B-28,29,30,31 COMP	Soil	3/9/2018 08:52	<input type="checkbox"/>	A	A											

Test Legend:

1	8260B_S	2	8260GAS_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Alexandra Iniguez

Add-On Prepared By: Alexandra Iniguez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments:

Date Logged: 3/9/2018

Date Add-On: 3/13/2018

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803578-001A	B-1,1,2,2 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/9/2018 7:42	5 days		<input type="checkbox"/>	
1803578-002A	B-3,4,4,5 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/9/2018 8:23	5 days		<input type="checkbox"/>	
1803578-005A	B-6,7,8 COMP	Soil	TPH(g) & 8260 by P&T GCMS	1	Acetate Liner	3/8/2018 9:22	5 days		<input type="checkbox"/>	
1803578-006A	B-9,10,11,12 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/8/2018 8:45	5 days		<input type="checkbox"/>	
1803578-009A	B-13,14,15 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/8/2018 9:26	5 days		<input type="checkbox"/>	
1803578-010A	B-16,17,18 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/8/2018 9:55	5 days		<input type="checkbox"/>	
1803578-013A	B-19,20,21,22 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/8/2018 10:59	5 days		<input type="checkbox"/>	
1803578-014A	B-22,23,24,25 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/9/2018 10:29	5 days		<input type="checkbox"/>	
1803578-017A	B-25,26,27,28 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/9/2018 7:42	5 days		<input type="checkbox"/>	
1803578-018A	B-28,29,30,31 COMP	Soil	TPH(g) & 8260 by P&T GCMS	4 / (4:1)	Acetate Liner	3/9/2018 8:52	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY FORM

1803578

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaroun Time: Rush 24Hr 48 Hr 72 Hr 5 Day

Geotracker: EDF Excel Write On (DW)

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Telephone: 510-247-9885 Fax: 510-886-5399
 Email: info@eras.biz

Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative										
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None						
B-1, 0.5-1		3/8/2018	0810	1	Tube	X						X							
B-1, 4.5-5		3/8/2018	0820	1	Tube	X						X							
B-2, 0.5-1		3/8/2018	0816	1	Tube	X						X							
B-2, 1.5-2		3/8/2018	0820	1	Tube	X						X							
B-3, 10.5-11		3/8/2018	0832	1	Tube	X						X							
B-4, 0.5-1		3/8/2018	0843	1	Tube	X						X							
B-4, 1.5-2		3/8/2018	0847	1	Tube	X						X							
B-5, 0.5-1		3/8/2018	0856	1	Tube	X						X							
B-1, 1		3/8/2018	0751	1	Enc	X						X							
B-1, 5		3/8/2018	0756	1	Enc	X						X							
B-2, 1		3/8/2018	0816	1	Enc	X						X							
B-2, 2		3/8/2018	0820	1	Enc	X						X							
B-3, 11		3/8/2018	0832	1	Enc	X						X							
B-4, 1		3/8/2018	0843	1	Enc	X						X							
B-4, 2		3/8/2018	0847	1	Enc	X						X							
B-5, 1		3/8/2018	0856	1	Enc	X						X							

Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270		
HOLD		
		COMPOSITE
		COMPOSITE
		COMPOSITE
		COMPOSITE
		COMPOSITE
		COMPOSITE

★ Gas and 9260 added to composites 3/13/18
 ★ ENCORES placed on hold

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>2:30 PM</u>	Received by: <u>[Signature]</u>	Date:	Time:
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>1:55</u>	Received by: <u>[Signature]</u>	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ICE/t- Condition	Comments: Please PDF and PROVIDE J FLAGS
Head space absent	
Dechlorinated in lab	
Appropriate containers	
Preserved in Lab	
Preservation	VOA's O&G Metals Other pH<2

1 of 5

CHAIN OF CUSTODY FORM

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day

Geotracker: EDF Excel Write On (DW)

Analysis Requested	Other	Comments
<p style="font-size: small; margin: 0;">Tph-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270</p> <p style="font-size: 2em; font-weight: bold; color: red; margin: 0;">HOLD</p>		
X	X	COMPOSITE
X	X	
X	X	
X	X	
X	X	COMPOSITE
X	X	
X	X	
X	X	
X	X	COMPOSITE
X	X	
X	X	
X	X	
X	X	COMPOSITE
X	X	
X	X	
X	X	

McC Campbell Analytical, Inc
 1534 Willow Pass Rd.
 Pittsburg, CA 94565
 877.252.9262
 925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Email: info@eras.biz

Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-6, 0.5-1		3/8/2018	0910	1	Tube	X						X		
B-6, 1.5-2		3/8/2018	0912	1	Tube	X						X		
B-7, 0.5-1		3/8/2018	0916	1	Tube	X						X		
B-8, 0.5-1		3/8/2018	0922	1	Tube	X						X		
B-9, 10.5-11		3/8/2018	0929	1	Tube	X						X		
B-10, 0.5-1		3/8/2018	1004	1	Tube	X						X		
B-11, 0.5-1		3/8/2018	1014	1	Tube	X						X		
B-12, 0.5-1		3/8/2018	0845	1	Tube	X						X		
B-6, 1		3/8/2018	0906	1	Enc	X						X		
B-6, 2		3/8/2018	0900	1	Enc	X						X		
B-7, 1		3/8/2018	0916	1	Enc	X						X		
B-8, 1		3/8/2018	0922	1	Enc	X						X		
B-9, 11		3/8/2018	0929	1	Enc	X						X		
B-10, 1		3/8/2018	1004	1	Enc	X						X		
B-11, 1		3/8/2018	1014	1	Enc	X						X		
B-12, 1		3/8/2018	0845	1	Enc	X						X		

*GAS AND 8260 added to composites 3/15/18
 *ENCLOSURES placed on hold

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <i>[Signature]</i>	Date: 3/9/18	Time: 2:30 PM	Received by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55
Relinquished by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55	Received by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

ICE/t- Condition _____	Comments: Please PDF and PROVIDE J FLAGS
Head space absent _____	
Dechlorinated in lab _____	
Appropriate containers _____	
Preserved in Lab _____	
Preservation _____	VOA's O&G Metals Other pH<2

2 of 5

CHAIN OF CUSTODY FORM

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day

Geotracker: EDF Excel Write On (DW)

Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270		
HOLD		

McC Campbell Analytical, Inc
 1534 Willow Pass Rd.
 Pittsburg, CA 94565
 877.252.9262
 925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative									
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None					
B-13, 0.5-1		3/8/2018	0850	1	Tube	X						X						
B-14, 0.5-1		3/8/2018	0856	1	Tube	X						X						
B-14, 1.5-2		3/8/2018	0917	1	Tube	X						X						
B-15, 0.5-1		3/8/2018	0926	1	Tube	X						X						
B-16, 0.5-1		3/8/2018	0935	1	Tube	X						X						
B-17, 0.5-1		3/8/2018	0941	1	Tube	X						X						
B-18, 0.5-1		3/8/2018	0946	1	Tube	X						X						
B-18, 1.5-2		3/8/2018	0955	1	Tube	X						X						
B-13, 1		3/8/2018	0850	1	Enc	X						X						
B-14, 1		3/8/2018	0856	1	Enc	X						X						
B-14, 2		3/8/2018	0917	1	Enc	X						X						
B-15, 1		3/8/2018	0926	1	Enc	X						X						
B-16, 1		3/8/2018	0935	1	Enc	X						X						
B-17, 1		3/8/2018	0941	1	Enc	X						X						
B-18, 1		3/8/2018	0946	1	Enc	X						X						
B-18, 2		3/8/2018	0955	1	Enc	X						X						

* Gas and 8260 added to composites 3/8/18
 * Encases placed on hold.

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <u>[Signature]</u>	Date: <u>3/8/18</u>	Time: <u>1430</u>	Received by: <u>[Signature]</u>	Date: <u>3/8/18</u>	Time: <u>230</u>
Relinquished by: <u>LMOO</u>	Date: <u>3/9/18</u>	Time: <u>1555</u>	Received by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>1555</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

ICE/t- Condition _____ Head space absent _____ Dechlorinated in lab _____ Preserved in Lab _____ Preservation _____	Comments: Please PDF and PROVIDE J FLAGS VOA's O&G Metals Other pH<2
---	--

3 of 5

CHAIN OF CUSTODY FORM

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day

Geotracker: EDF Excel Write On (DW)

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Analysis Requested	Other	Comments
Tph-gro and VOCs by EPA Method 8260		*COS and 8260 added to composite's 3/13/18 *ENCORES placed on hold
TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup		
CAM 17 Metals		
SVOC by EPA Method 8270		
HCL		
H2SO4		
HNO3		
ICE		
None		
None		
None		COMPOSITE
None		COMPOSITE
None		COMPOSITE
None		COMPOSITE

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221
 Project location 1401 West Winton, Hayward
 Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative				
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None
B-19, 0.5-1		3/8/2018	1016	1	Tube	X						X	
B-20, 0.5-1		3/8/2018	1019	1	Tube	X						X	
B-21, 0.5-1		3/8/2018	1023	1	Tube	X						X	
B-22, 0.5-1		3/8/2018	1059	1	Tube	X						X	
B-22, 1.5-2		3/9/2018	1029	1	Tube	X						X	
B-23, 0.5-1		3/8/2018	1102	1	Tube	X						X	
B-24, 0.5-1		3/8/2018	1106	1	Tube	X						X	
B-25, 0.5-1		3/8/2018	1117	1	Tube	X						X	
B-19, 1		3/8/2018	1016	1	Enc	X						X	
B-20, 1		3/8/2018	1019	1	Enc	X						X	
B-21, 1		3/8/2018	1023	1	Enc	X						X	
B-22, 1		3/8/2018	1029	1	Enc	X						X	
B-22, 2		3/9/2018	0731	1	Enc	X						X	
B-23, 1		3/8/2018	1102	1	Enc	X						X	
B-24, 1		3/8/2018	1105	1	Enc	X						X	
B-25, 1		3/8/2018	1110	1	Enc	X						X	

RELINQUISHED BY:		RECEIVED BY:	
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>2:30</u>	Received by: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>1:55</u>	Received by: <u>[Signature]</u>
Relinquished by:	Date:	Time:	Received by:

ICE/t- Condition	Comments: Please PDF and PROVIDE J FLAGS
Head space absent	
Dechlorinated in lab	
Appropriate containers	
Preserved in Lab	
Preservation	VOA's O&G Metals Other pH<2

405

CHAIN OF CUSTODY FORM

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day

Geotracker: EDF Excel Write On (DW)

Analysis Requested	Other	Comments
--------------------	-------	----------

<p style="font-size: small; margin: 0;">Tph-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270</p>		
<p style="font-size: x-large; margin: 0;">HOLD</p>		

McC Campbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Email: info@eras.biz

Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221

Project location 1401 West Winton, Hayward

Sampler: Greg Munsell

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative				
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None
B-25, 1.5-2		3/9/2018	0742	1	Tube	X						X	
B-26, 0.5-1		3/8/2018	1118	1	Tube	X						X	
B-27, 0.5-1		3/8/2018	1121	1	Tube	X						X	
B-28, 0.5-1		3/8/2018	1124	1	Tube	X						X	
B-28, 1.5-2		3/9/2018	0752	1	Tube	X						X	
B-29, 0.5-1		3/8/2018	1144	1	Tube	X						X	
B-30, 0.5-1		3/8/2018	1147	1	Tube	X						X	
B-31, 5.5-6		3/9/2018	0823	1	Tube	X						X	
B-25, 2		3/9/2018	0742	1	Enc	X						X	
B-26, 1		3/8/2018	1059	1	Enc	X						X	
B-27, 1		3/8/2018	1121	1	Enc	X						X	
B-28, 1		3/8/2018	1124	1	Enc	X						X	
B-28, 2		3/9/2018	0752	1	Enc	X						X	
B-29, 1		3/8/2018	1144	1	Enc	X						X	
B-30, 1		3/8/2018	1147	1	Enc	X						X	
B-31, 6		3/9/2018	0823	1	Enc	X						X	

*B-26, 0.5-1

3/8/18 11:18 - hold

*AGAS and 8260 added to composites 3/13/18
 *ENCLOSURES placed on hold

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>1430</u>	Received by: <u>[Signature]</u>	Date:	Time:
Relinquished by: <u>[Signature]</u>	Date: <u>3/9/18</u>	Time: <u>1555</u>	Received by: <u>[Signature]</u>	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ICE/t- Condition _____	Comments: Please PDF and PROVIDE J FLAGS
Head space absent _____	
Dechlorinated in lab _____	
Appropriate containers _____	
Preserved in Lab _____	
Preservation _____	VOA's O&G Metals Other pH<2

*Extra ENCORE received, Added to chain and placed on hold.

S.A.S.



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1803578 B

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Greg Munsell

Project P.O.:

Project: 17221; 1401 West Winton, Hayward

Project Received: 03/09/2018

Analytical Report reviewed & approved for release on 03/23/2018 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward
WorkOrder: 1803578 B

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 3/9/18 15:55
Date Prepared: 3/20/18
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
Extraction Method: CA Title 22
Analytical Method: SW6020
Unit: mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-25,26,27,28 COMP	1803578-017A	Soil	03/09/2018 07:42	ICP-MS2 148SMPL.D	155058

Analytes	Result	RL	DF	Date Analyzed
Lead	3.1	0.10	1	03/22/2018 22:54

Analyst(s): ND



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 3/20/18
Date Analyzed: 3/22/18
Instrument: ICP-MS2
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward

WorkOrder: 1803578
BatchID: 155058
Extraction Method: CA Title 22
Analytical Method: SW6020
Unit: mg/L
Sample ID: MB-155058
 1802E10-001AMS/MSD

QC Summary Report for Metals (STLC)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND		0.10	0	-	F2	-

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	10.2	10.4	10	0.18	100	102	75-125	2.62	20

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803578 **B** ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Greg Munsell
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; greg@eras.biz; andrew@era
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 03/09/2018

Date Logged: 03/09/2018

Date Add-On: 03/20/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1803578-017	B-25,26,27,28 COMP	Soil	3/9/2018 07:42	<input type="checkbox"/>	A												

Test Legend:

1	PBMS_STLC_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Alexandra Iniguez

Add-On Prepared By: Maria Venegas

Comments: STLC Pb added to 017 3/20/18 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward

Work Order: 1803578

Client Contact: Greg Munsell

QC Level: LEVEL 2

Contact's Email info@eras.biz; greg@eras.biz; andrew@eras.biz

Comments: STLC Pb added to 017 3/20/18 STAT.

Date Logged: 3/9/2018

Date Add-On: 3/20/2018

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803578-017A	B-25,26,27,28 COMP	Soil	SW6020 (Lead) (STLC)	4 / (4:1)	Acetate Liner	3/9/2018 7:42	5 days*		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1803578

CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.

Email: info@eras.biz

Telephone: 510-247-9885 Fax: 510-886-5399

Project # 17221

Project location 1401 West Winton, Hayward

Sampler: Greg Munsell

		Analysis Requested										Other	Comments						
Sample ID	Location/Field Point Name	Date	Time	# of Containers	Container Type	Matrix					Preservative								
						Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None						
B-25, 1.5-2		3/9/2018	0742	1	Tube	X													
B-26, 0.5-1		3/8/2018	1118	1	Tube	X													COMPOSITE
B-27, 0.5-1		3/8/2018	1121	1	Tube	X													
B-28, 0.5-1		3/8/2018	1124	1	Tube	X													
B-28, 1.5-2		3/9/2018	0752	1	Tube	X													
B-29, 0.5-1		3/8/2018	1144	1	Tube	X													COMPOSITE
B-30, 0.5-1		3/8/2018	1147	1	Tube	X													
B-31, 5.5-6		3/9/2018	0823	1	Tube	X													
B-25, 2		3/9/2018	0742	1	Enc	X													
B-26, 1		3/8/2018	1059	1	Enc	X													COMPOSITE
B-27, 1		3/8/2018	1121	1	Enc	X													
B-28, 1		3/8/2018	1124	1	Enc	X													
B-28, 2		3/9/2018	0752	1	Enc	X													
B-29, 1		3/8/2018	1144	1	Enc	X													COMPOSITE
B-30, 1		3/8/2018	1147	1	Enc	X													
B-31, 6		3/9/2018	0823	1	Enc	X													

Tph-gro and VOCs by EPA Method 8260
 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup
 CAM 17 Metals
 SVOC by EPA Method 8270

HCL
 SILIC PD 3/20/18 STAT

*B-26, 0.5-1 3/8/18 11:18 - hold

*GAS and 8260 added to composites 3/13/18
 *ENCORES placed on hold

RELINQUISHED BY:		RECEIVED BY:	
Relinquished by: <i>[Signature]</i>	Date: 3/13/18	Time: 1:30	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date: 3/9/18	Time: 1:55	Received by: <i>[Signature]</i>
Relinquished by:	Date:	Time:	Received by:

ICE/t-Condition _____
 Head space absent _____
 Dechlorinated in lab _____
 Appropriate containers _____
 Preserved in Lab _____
 Preservation VOA's O&G Metals Other pH<2

Comments: Please PDF and PROVIDE J FLAGS

*Extra ENCORE received, Added to chain and placed on hold.

S.A.S



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1805H38

Report Created for: ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

Project Contact: Andrew Savage

Project P.O.:

Project: 17221; 1401 West Winton, Hayward, CA

Project Received: 05/31/2018

Analytical Report reviewed & approved for release on 06/08/2018 by:

Yen Cao

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward, CA
WorkOrder: 1805H38

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward, CA
WorkOrder: 1805H38

Analytical Qualifiers

S Surrogate spike recovery outside accepted recovery limits.
a3 Sample diluted due to high organic content.
c11 The surrogate recovery is above the upper control limit. The target analyte(s) were Not Detected (ND); therefore, the data has been reported.
j1 See attached narrative.

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F3 The surrogate standard recovery and/or RPD is outside of acceptance limits.
F10 MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.
F13 Indigenous sample results too high for a representative matrix spike analysis.



Case Narrative

Client: ERAS Environmental, Inc.
Project: 17221; 1401 West Winton, Hayward, CA

Work Order: 1805H38
June 08, 2018

j1) The soil surrogates spiked in batches 159166 & 159173 for 8260 was spiked 10 times lower in the extraction solvent. Therefore, the recoveries for the following surrogates should be considered out to 10% versus 100%:

Benzene-d6

Ethylbenzene-d10

1,2-DCB-d4



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC18 06051827.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 00:56
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 00:56
Benzene	ND	0.0050	1	06/06/2018 00:56
Bromobenzene	ND	0.0050	1	06/06/2018 00:56
Bromochloromethane	ND	0.0050	1	06/06/2018 00:56
Bromodichloromethane	ND	0.0050	1	06/06/2018 00:56
Bromoform	ND	0.0050	1	06/06/2018 00:56
Bromomethane	ND	0.0050	1	06/06/2018 00:56
2-Butanone (MEK)	ND	0.020	1	06/06/2018 00:56
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 00:56
n-Butyl benzene	ND	0.0050	1	06/06/2018 00:56
sec-Butyl benzene	ND	0.0050	1	06/06/2018 00:56
tert-Butyl benzene	ND	0.0050	1	06/06/2018 00:56
Carbon Disulfide	ND	0.0050	1	06/06/2018 00:56
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 00:56
Chlorobenzene	ND	0.0050	1	06/06/2018 00:56
Chloroethane	ND	0.0050	1	06/06/2018 00:56
Chloroform	ND	0.0050	1	06/06/2018 00:56
Chloromethane	ND	0.0050	1	06/06/2018 00:56
2-Chlorotoluene	ND	0.0050	1	06/06/2018 00:56
4-Chlorotoluene	ND	0.0050	1	06/06/2018 00:56
Dibromochloromethane	ND	0.0050	1	06/06/2018 00:56
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 00:56
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 00:56
Dibromomethane	ND	0.0050	1	06/06/2018 00:56
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 00:56
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 00:56
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 00:56
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 00:56
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 00:56
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 00:56
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 00:56
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 00:56
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 00:56
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 00:56
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 00:56
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 00:56

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC18 06051827.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 00:56
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 00:56
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 00:56
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 00:56
Ethylbenzene	ND	0.0050	1	06/06/2018 00:56
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 00:56
Freon 113	ND	0.0050	1	06/06/2018 00:56
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 00:56
Hexachloroethane	ND	0.0050	1	06/06/2018 00:56
2-Hexanone	ND	0.0050	1	06/06/2018 00:56
Isopropylbenzene	ND	0.0050	1	06/06/2018 00:56
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 00:56
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 00:56
Methylene chloride	ND	0.0050	1	06/06/2018 00:56
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 00:56
Naphthalene	ND	0.0050	1	06/06/2018 00:56
n-Propyl benzene	ND	0.0050	1	06/06/2018 00:56
Styrene	ND	0.0050	1	06/06/2018 00:56
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 00:56
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 00:56
Tetrachloroethene	ND	0.0050	1	06/06/2018 00:56
Toluene	ND	0.0050	1	06/06/2018 00:56
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 00:56
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 00:56
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 00:56
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 00:56
Trichloroethene	ND	0.0050	1	06/06/2018 00:56
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 00:56
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 00:56
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 00:56
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 00:56
Vinyl Chloride	ND	0.0050	1	06/06/2018 00:56
Xylenes, Total	ND	0.0050	1	06/06/2018 00:56

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC18 06051827.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	111		82-136	06/06/2018 00:56
Toluene-d8	117		92-139	06/06/2018 00:56
4-BFB	108		82-135	06/06/2018 00:56
Benzene-d6	9	S	55-122	06/06/2018 00:56
Ethylbenzene-d10	9	S	58-141	06/06/2018 00:56
1,2-DCB-d4	7	S	51-107	06/06/2018 00:56

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC18 06061821.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 20:47
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 20:47
Benzene	ND	0.0050	1	06/06/2018 20:47
Bromobenzene	ND	0.0050	1	06/06/2018 20:47
Bromochloromethane	ND	0.0050	1	06/06/2018 20:47
Bromodichloromethane	ND	0.0050	1	06/06/2018 20:47
Bromoform	ND	0.0050	1	06/06/2018 20:47
Bromomethane	ND	0.0050	1	06/06/2018 20:47
2-Butanone (MEK)	ND	0.020	1	06/06/2018 20:47
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 20:47
n-Butyl benzene	ND	0.0050	1	06/06/2018 20:47
sec-Butyl benzene	ND	0.0050	1	06/06/2018 20:47
tert-Butyl benzene	ND	0.0050	1	06/06/2018 20:47
Carbon Disulfide	ND	0.0050	1	06/06/2018 20:47
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 20:47
Chlorobenzene	ND	0.0050	1	06/06/2018 20:47
Chloroethane	ND	0.0050	1	06/06/2018 20:47
Chloroform	ND	0.0050	1	06/06/2018 20:47
Chloromethane	ND	0.0050	1	06/06/2018 20:47
2-Chlorotoluene	ND	0.0050	1	06/06/2018 20:47
4-Chlorotoluene	ND	0.0050	1	06/06/2018 20:47
Dibromochloromethane	ND	0.0050	1	06/06/2018 20:47
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 20:47
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 20:47
Dibromomethane	ND	0.0050	1	06/06/2018 20:47
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 20:47
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 20:47
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 20:47
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 20:47
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 20:47
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 20:47
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 20:47
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 20:47
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 20:47
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 20:47
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 20:47
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 20:47

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC18 06061821.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 20:47
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 20:47
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 20:47
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 20:47
Ethylbenzene	ND	0.0050	1	06/06/2018 20:47
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 20:47
Freon 113	ND	0.0050	1	06/06/2018 20:47
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 20:47
Hexachloroethane	ND	0.0050	1	06/06/2018 20:47
2-Hexanone	ND	0.0050	1	06/06/2018 20:47
Isopropylbenzene	ND	0.0050	1	06/06/2018 20:47
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 20:47
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 20:47
Methylene chloride	ND	0.0050	1	06/06/2018 20:47
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 20:47
Naphthalene	ND	0.0050	1	06/06/2018 20:47
n-Propyl benzene	ND	0.0050	1	06/06/2018 20:47
Styrene	ND	0.0050	1	06/06/2018 20:47
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 20:47
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 20:47
Tetrachloroethene	ND	0.0050	1	06/06/2018 20:47
Toluene	ND	0.0050	1	06/06/2018 20:47
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 20:47
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 20:47
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 20:47
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 20:47
Trichloroethene	ND	0.0050	1	06/06/2018 20:47
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 20:47
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 20:47
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 20:47
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 20:47
Vinyl Chloride	ND	0.0050	1	06/06/2018 20:47
Xylenes, Total	ND	0.0050	1	06/06/2018 20:47

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC18 06061821.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	110		82-136	06/06/2018 20:47
Toluene-d8	122		92-139	06/06/2018 20:47
4-BFB	102		82-135	06/06/2018 20:47
Benzene-d6	10	S	55-122	06/06/2018 20:47
Ethylbenzene-d10	10	S	58-141	06/06/2018 20:47
1,2-DCB-d4	7	S	51-107	06/06/2018 20:47

Analyst(s): KF

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC18 06051828.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 01:35
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 01:35
Benzene	ND	0.0050	1	06/06/2018 01:35
Bromobenzene	ND	0.0050	1	06/06/2018 01:35
Bromochloromethane	ND	0.0050	1	06/06/2018 01:35
Bromodichloromethane	ND	0.0050	1	06/06/2018 01:35
Bromoform	ND	0.0050	1	06/06/2018 01:35
Bromomethane	ND	0.0050	1	06/06/2018 01:35
2-Butanone (MEK)	ND	0.020	1	06/06/2018 01:35
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 01:35
n-Butyl benzene	ND	0.0050	1	06/06/2018 01:35
sec-Butyl benzene	ND	0.0050	1	06/06/2018 01:35
tert-Butyl benzene	ND	0.0050	1	06/06/2018 01:35
Carbon Disulfide	ND	0.0050	1	06/06/2018 01:35
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 01:35
Chlorobenzene	ND	0.0050	1	06/06/2018 01:35
Chloroethane	ND	0.0050	1	06/06/2018 01:35
Chloroform	ND	0.0050	1	06/06/2018 01:35
Chloromethane	ND	0.0050	1	06/06/2018 01:35
2-Chlorotoluene	ND	0.0050	1	06/06/2018 01:35
4-Chlorotoluene	ND	0.0050	1	06/06/2018 01:35
Dibromochloromethane	ND	0.0050	1	06/06/2018 01:35
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 01:35
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 01:35
Dibromomethane	ND	0.0050	1	06/06/2018 01:35
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 01:35
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 01:35
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 01:35
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 01:35
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 01:35
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 01:35
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 01:35
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 01:35
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 01:35
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 01:35
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 01:35
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 01:35

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC18 06051828.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 01:35
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 01:35
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 01:35
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 01:35
Ethylbenzene	ND	0.0050	1	06/06/2018 01:35
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 01:35
Freon 113	ND	0.0050	1	06/06/2018 01:35
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 01:35
Hexachloroethane	ND	0.0050	1	06/06/2018 01:35
2-Hexanone	ND	0.0050	1	06/06/2018 01:35
Isopropylbenzene	ND	0.0050	1	06/06/2018 01:35
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 01:35
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 01:35
Methylene chloride	ND	0.0050	1	06/06/2018 01:35
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 01:35
Naphthalene	ND	0.0050	1	06/06/2018 01:35
n-Propyl benzene	ND	0.0050	1	06/06/2018 01:35
Styrene	ND	0.0050	1	06/06/2018 01:35
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 01:35
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 01:35
Tetrachloroethene	ND	0.0050	1	06/06/2018 01:35
Toluene	ND	0.0050	1	06/06/2018 01:35
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 01:35
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 01:35
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 01:35
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 01:35
Trichloroethene	ND	0.0050	1	06/06/2018 01:35
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 01:35
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 01:35
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 01:35
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 01:35
Vinyl Chloride	ND	0.0050	1	06/06/2018 01:35
Xylenes, Total	ND	0.0050	1	06/06/2018 01:35

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC18 06051828.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	112		82-136	06/06/2018 01:35
Toluene-d8	119		92-139	06/06/2018 01:35
4-BFB	105		82-135	06/06/2018 01:35
Benzene-d6	9	S	55-122	06/06/2018 01:35
Ethylbenzene-d10	9	S	58-141	06/06/2018 01:35
1,2-DCB-d4	7	S	51-107	06/06/2018 01:35

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC18 06051829.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 02:14
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 02:14
Benzene	ND	0.0050	1	06/06/2018 02:14
Bromobenzene	ND	0.0050	1	06/06/2018 02:14
Bromochloromethane	ND	0.0050	1	06/06/2018 02:14
Bromodichloromethane	ND	0.0050	1	06/06/2018 02:14
Bromoform	ND	0.0050	1	06/06/2018 02:14
Bromomethane	ND	0.0050	1	06/06/2018 02:14
2-Butanone (MEK)	ND	0.020	1	06/06/2018 02:14
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 02:14
n-Butyl benzene	ND	0.0050	1	06/06/2018 02:14
sec-Butyl benzene	ND	0.0050	1	06/06/2018 02:14
tert-Butyl benzene	ND	0.0050	1	06/06/2018 02:14
Carbon Disulfide	ND	0.0050	1	06/06/2018 02:14
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 02:14
Chlorobenzene	ND	0.0050	1	06/06/2018 02:14
Chloroethane	ND	0.0050	1	06/06/2018 02:14
Chloroform	ND	0.0050	1	06/06/2018 02:14
Chloromethane	ND	0.0050	1	06/06/2018 02:14
2-Chlorotoluene	ND	0.0050	1	06/06/2018 02:14
4-Chlorotoluene	ND	0.0050	1	06/06/2018 02:14
Dibromochloromethane	ND	0.0050	1	06/06/2018 02:14
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 02:14
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 02:14
Dibromomethane	ND	0.0050	1	06/06/2018 02:14
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 02:14
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 02:14
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 02:14
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 02:14
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 02:14
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 02:14
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 02:14
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 02:14
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 02:14
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 02:14
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 02:14
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 02:14

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC18 06051829.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 02:14
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 02:14
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 02:14
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 02:14
Ethylbenzene	ND	0.0050	1	06/06/2018 02:14
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 02:14
Freon 113	ND	0.0050	1	06/06/2018 02:14
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 02:14
Hexachloroethane	ND	0.0050	1	06/06/2018 02:14
2-Hexanone	ND	0.0050	1	06/06/2018 02:14
Isopropylbenzene	ND	0.0050	1	06/06/2018 02:14
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 02:14
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 02:14
Methylene chloride	ND	0.0050	1	06/06/2018 02:14
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 02:14
Naphthalene	ND	0.0050	1	06/06/2018 02:14
n-Propyl benzene	ND	0.0050	1	06/06/2018 02:14
Styrene	ND	0.0050	1	06/06/2018 02:14
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 02:14
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 02:14
Tetrachloroethene	ND	0.0050	1	06/06/2018 02:14
Toluene	ND	0.0050	1	06/06/2018 02:14
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 02:14
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 02:14
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 02:14
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 02:14
Trichloroethene	ND	0.0050	1	06/06/2018 02:14
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 02:14
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 02:14
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 02:14
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 02:14
Vinyl Chloride	ND	0.0050	1	06/06/2018 02:14
Xylenes, Total	ND	0.0050	1	06/06/2018 02:14

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC18 06051829.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	111		82-136	06/06/2018 02:14
Toluene-d8	118		92-139	06/06/2018 02:14
4-BFB	104		82-135	06/06/2018 02:14
Benzene-d6	9	S	55-122	06/06/2018 02:14
Ethylbenzene-d10	9	S	58-141	06/06/2018 02:14
1,2-DCB-d4	7	S	51-107	06/06/2018 02:14

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC18 06051830.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 02:54
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 02:54
Benzene	ND	0.0050	1	06/06/2018 02:54
Bromobenzene	ND	0.0050	1	06/06/2018 02:54
Bromochloromethane	ND	0.0050	1	06/06/2018 02:54
Bromodichloromethane	ND	0.0050	1	06/06/2018 02:54
Bromoform	ND	0.0050	1	06/06/2018 02:54
Bromomethane	ND	0.0050	1	06/06/2018 02:54
2-Butanone (MEK)	ND	0.020	1	06/06/2018 02:54
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 02:54
n-Butyl benzene	ND	0.0050	1	06/06/2018 02:54
sec-Butyl benzene	ND	0.0050	1	06/06/2018 02:54
tert-Butyl benzene	ND	0.0050	1	06/06/2018 02:54
Carbon Disulfide	ND	0.0050	1	06/06/2018 02:54
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 02:54
Chlorobenzene	ND	0.0050	1	06/06/2018 02:54
Chloroethane	ND	0.0050	1	06/06/2018 02:54
Chloroform	ND	0.0050	1	06/06/2018 02:54
Chloromethane	ND	0.0050	1	06/06/2018 02:54
2-Chlorotoluene	ND	0.0050	1	06/06/2018 02:54
4-Chlorotoluene	ND	0.0050	1	06/06/2018 02:54
Dibromochloromethane	ND	0.0050	1	06/06/2018 02:54
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 02:54
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 02:54
Dibromomethane	ND	0.0050	1	06/06/2018 02:54
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 02:54
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 02:54
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 02:54
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 02:54
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 02:54
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 02:54
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 02:54
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 02:54
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 02:54
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 02:54
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 02:54
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 02:54

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC18 06051830.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 02:54
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 02:54
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 02:54
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 02:54
Ethylbenzene	ND	0.0050	1	06/06/2018 02:54
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 02:54
Freon 113	ND	0.0050	1	06/06/2018 02:54
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 02:54
Hexachloroethane	ND	0.0050	1	06/06/2018 02:54
2-Hexanone	ND	0.0050	1	06/06/2018 02:54
Isopropylbenzene	ND	0.0050	1	06/06/2018 02:54
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 02:54
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 02:54
Methylene chloride	ND	0.0050	1	06/06/2018 02:54
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 02:54
Naphthalene	ND	0.0050	1	06/06/2018 02:54
n-Propyl benzene	ND	0.0050	1	06/06/2018 02:54
Styrene	ND	0.0050	1	06/06/2018 02:54
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 02:54
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 02:54
Tetrachloroethene	ND	0.0050	1	06/06/2018 02:54
Toluene	ND	0.0050	1	06/06/2018 02:54
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 02:54
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 02:54
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 02:54
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 02:54
Trichloroethene	ND	0.0050	1	06/06/2018 02:54
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 02:54
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 02:54
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 02:54
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 02:54
Vinyl Chloride	ND	0.0050	1	06/06/2018 02:54
Xylenes, Total	ND	0.0050	1	06/06/2018 02:54

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC18 06051830.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	112		82-136	06/06/2018 02:54
Toluene-d8	117		92-139	06/06/2018 02:54
4-BFB	109		82-135	06/06/2018 02:54
Benzene-d6	10	S	55-122	06/06/2018 02:54
Ethylbenzene-d10	9	S	58-141	06/06/2018 02:54
1,2-DCB-d4	7	S	51-107	06/06/2018 02:54

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC18 06051831.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 03:33
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 03:33
Benzene	ND	0.0050	1	06/06/2018 03:33
Bromobenzene	ND	0.0050	1	06/06/2018 03:33
Bromochloromethane	ND	0.0050	1	06/06/2018 03:33
Bromodichloromethane	ND	0.0050	1	06/06/2018 03:33
Bromoform	ND	0.0050	1	06/06/2018 03:33
Bromomethane	ND	0.0050	1	06/06/2018 03:33
2-Butanone (MEK)	ND	0.020	1	06/06/2018 03:33
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 03:33
n-Butyl benzene	ND	0.0050	1	06/06/2018 03:33
sec-Butyl benzene	ND	0.0050	1	06/06/2018 03:33
tert-Butyl benzene	ND	0.0050	1	06/06/2018 03:33
Carbon Disulfide	ND	0.0050	1	06/06/2018 03:33
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 03:33
Chlorobenzene	ND	0.0050	1	06/06/2018 03:33
Chloroethane	ND	0.0050	1	06/06/2018 03:33
Chloroform	ND	0.0050	1	06/06/2018 03:33
Chloromethane	ND	0.0050	1	06/06/2018 03:33
2-Chlorotoluene	ND	0.0050	1	06/06/2018 03:33
4-Chlorotoluene	ND	0.0050	1	06/06/2018 03:33
Dibromochloromethane	ND	0.0050	1	06/06/2018 03:33
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 03:33
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 03:33
Dibromomethane	ND	0.0050	1	06/06/2018 03:33
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 03:33
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 03:33
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 03:33
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 03:33
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 03:33
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 03:33
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 03:33
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 03:33
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 03:33
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 03:33
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 03:33
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 03:33

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC18 06051831.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 03:33
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 03:33
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 03:33
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 03:33
Ethylbenzene	ND	0.0050	1	06/06/2018 03:33
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 03:33
Freon 113	ND	0.0050	1	06/06/2018 03:33
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 03:33
Hexachloroethane	ND	0.0050	1	06/06/2018 03:33
2-Hexanone	ND	0.0050	1	06/06/2018 03:33
Isopropylbenzene	ND	0.0050	1	06/06/2018 03:33
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 03:33
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 03:33
Methylene chloride	ND	0.0050	1	06/06/2018 03:33
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 03:33
Naphthalene	ND	0.0050	1	06/06/2018 03:33
n-Propyl benzene	ND	0.0050	1	06/06/2018 03:33
Styrene	ND	0.0050	1	06/06/2018 03:33
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 03:33
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 03:33
Tetrachloroethene	ND	0.0050	1	06/06/2018 03:33
Toluene	ND	0.0050	1	06/06/2018 03:33
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 03:33
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 03:33
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 03:33
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 03:33
Trichloroethene	ND	0.0050	1	06/06/2018 03:33
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 03:33
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 03:33
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 03:33
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 03:33
Vinyl Chloride	ND	0.0050	1	06/06/2018 03:33
Xylenes, Total	ND	0.0050	1	06/06/2018 03:33

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC18 06051831.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	104		82-136	06/06/2018 03:33
Toluene-d8	123		92-139	06/06/2018 03:33
4-BFB	104		82-135	06/06/2018 03:33
Benzene-d6	9	S	55-122	06/06/2018 03:33
Ethylbenzene-d10	10	S	58-141	06/06/2018 03:33
1,2-DCB-d4	7	S	51-107	06/06/2018 03:33

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC18 06051832.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 04:13
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 04:13
Benzene	ND	0.0050	1	06/06/2018 04:13
Bromobenzene	ND	0.0050	1	06/06/2018 04:13
Bromochloromethane	ND	0.0050	1	06/06/2018 04:13
Bromodichloromethane	ND	0.0050	1	06/06/2018 04:13
Bromoform	ND	0.0050	1	06/06/2018 04:13
Bromomethane	ND	0.0050	1	06/06/2018 04:13
2-Butanone (MEK)	ND	0.020	1	06/06/2018 04:13
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 04:13
n-Butyl benzene	ND	0.0050	1	06/06/2018 04:13
sec-Butyl benzene	ND	0.0050	1	06/06/2018 04:13
tert-Butyl benzene	ND	0.0050	1	06/06/2018 04:13
Carbon Disulfide	ND	0.0050	1	06/06/2018 04:13
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 04:13
Chlorobenzene	ND	0.0050	1	06/06/2018 04:13
Chloroethane	ND	0.0050	1	06/06/2018 04:13
Chloroform	ND	0.0050	1	06/06/2018 04:13
Chloromethane	ND	0.0050	1	06/06/2018 04:13
2-Chlorotoluene	ND	0.0050	1	06/06/2018 04:13
4-Chlorotoluene	ND	0.0050	1	06/06/2018 04:13
Dibromochloromethane	ND	0.0050	1	06/06/2018 04:13
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 04:13
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 04:13
Dibromomethane	ND	0.0050	1	06/06/2018 04:13
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 04:13
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 04:13
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 04:13
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 04:13
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 04:13
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 04:13
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 04:13
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 04:13
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 04:13
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 04:13
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 04:13
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 04:13

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC18 06051832.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 04:13
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 04:13
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 04:13
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 04:13
Ethylbenzene	ND	0.0050	1	06/06/2018 04:13
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 04:13
Freon 113	ND	0.0050	1	06/06/2018 04:13
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 04:13
Hexachloroethane	ND	0.0050	1	06/06/2018 04:13
2-Hexanone	ND	0.0050	1	06/06/2018 04:13
Isopropylbenzene	ND	0.0050	1	06/06/2018 04:13
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 04:13
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 04:13
Methylene chloride	ND	0.0050	1	06/06/2018 04:13
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 04:13
Naphthalene	ND	0.0050	1	06/06/2018 04:13
n-Propyl benzene	ND	0.0050	1	06/06/2018 04:13
Styrene	ND	0.0050	1	06/06/2018 04:13
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 04:13
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 04:13
Tetrachloroethene	ND	0.0050	1	06/06/2018 04:13
Toluene	ND	0.0050	1	06/06/2018 04:13
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 04:13
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 04:13
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 04:13
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 04:13
Trichloroethene	ND	0.0050	1	06/06/2018 04:13
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 04:13
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 04:13
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 04:13
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 04:13
Vinyl Chloride	ND	0.0050	1	06/06/2018 04:13
Xylenes, Total	ND	0.0050	1	06/06/2018 04:13

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC18 06051832.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	99		82-136	06/06/2018 04:13
Toluene-d8	122		92-139	06/06/2018 04:13
4-BFB	104		82-135	06/06/2018 04:13
Benzene-d6	9	S	55-122	06/06/2018 04:13
Ethylbenzene-d10	10	S	58-141	06/06/2018 04:13
1,2-DCB-d4	7	S	51-107	06/06/2018 04:13

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC18 06051833.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 04:52
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 04:52
Benzene	ND	0.0050	1	06/06/2018 04:52
Bromobenzene	ND	0.0050	1	06/06/2018 04:52
Bromochloromethane	ND	0.0050	1	06/06/2018 04:52
Bromodichloromethane	ND	0.0050	1	06/06/2018 04:52
Bromoform	ND	0.0050	1	06/06/2018 04:52
Bromomethane	ND	0.0050	1	06/06/2018 04:52
2-Butanone (MEK)	ND	0.020	1	06/06/2018 04:52
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 04:52
n-Butyl benzene	ND	0.0050	1	06/06/2018 04:52
sec-Butyl benzene	ND	0.0050	1	06/06/2018 04:52
tert-Butyl benzene	ND	0.0050	1	06/06/2018 04:52
Carbon Disulfide	ND	0.0050	1	06/06/2018 04:52
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 04:52
Chlorobenzene	ND	0.0050	1	06/06/2018 04:52
Chloroethane	ND	0.0050	1	06/06/2018 04:52
Chloroform	ND	0.0050	1	06/06/2018 04:52
Chloromethane	ND	0.0050	1	06/06/2018 04:52
2-Chlorotoluene	ND	0.0050	1	06/06/2018 04:52
4-Chlorotoluene	ND	0.0050	1	06/06/2018 04:52
Dibromochloromethane	ND	0.0050	1	06/06/2018 04:52
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 04:52
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 04:52
Dibromomethane	ND	0.0050	1	06/06/2018 04:52
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 04:52
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 04:52
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 04:52
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 04:52
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 04:52
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 04:52
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 04:52
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 04:52
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 04:52
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 04:52
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 04:52
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 04:52

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC18 06051833.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 04:52
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 04:52
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 04:52
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 04:52
Ethylbenzene	ND	0.0050	1	06/06/2018 04:52
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 04:52
Freon 113	ND	0.0050	1	06/06/2018 04:52
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 04:52
Hexachloroethane	ND	0.0050	1	06/06/2018 04:52
2-Hexanone	ND	0.0050	1	06/06/2018 04:52
Isopropylbenzene	ND	0.0050	1	06/06/2018 04:52
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 04:52
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 04:52
Methylene chloride	ND	0.0050	1	06/06/2018 04:52
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 04:52
Naphthalene	ND	0.0050	1	06/06/2018 04:52
n-Propyl benzene	ND	0.0050	1	06/06/2018 04:52
Styrene	ND	0.0050	1	06/06/2018 04:52
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 04:52
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 04:52
Tetrachloroethene	ND	0.0050	1	06/06/2018 04:52
Toluene	ND	0.0050	1	06/06/2018 04:52
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 04:52
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 04:52
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 04:52
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 04:52
Trichloroethene	ND	0.0050	1	06/06/2018 04:52
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 04:52
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 04:52
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 04:52
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 04:52
Vinyl Chloride	ND	0.0050	1	06/06/2018 04:52
Xylenes, Total	ND	0.0050	1	06/06/2018 04:52

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC18 06051833.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	105		82-136	06/06/2018 04:52
Toluene-d8	123		92-139	06/06/2018 04:52
4-BFB	103		82-135	06/06/2018 04:52
Benzene-d6	9	S	55-122	06/06/2018 04:52
Ethylbenzene-d10	10	S	58-141	06/06/2018 04:52
1,2-DCB-d4	7	S	51-107	06/06/2018 04:52

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC18 06051834.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 05:32
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 05:32
Benzene	ND	0.0050	1	06/06/2018 05:32
Bromobenzene	ND	0.0050	1	06/06/2018 05:32
Bromochloromethane	ND	0.0050	1	06/06/2018 05:32
Bromodichloromethane	ND	0.0050	1	06/06/2018 05:32
Bromoform	ND	0.0050	1	06/06/2018 05:32
Bromomethane	ND	0.0050	1	06/06/2018 05:32
2-Butanone (MEK)	ND	0.020	1	06/06/2018 05:32
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 05:32
n-Butyl benzene	ND	0.0050	1	06/06/2018 05:32
sec-Butyl benzene	ND	0.0050	1	06/06/2018 05:32
tert-Butyl benzene	ND	0.0050	1	06/06/2018 05:32
Carbon Disulfide	ND	0.0050	1	06/06/2018 05:32
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 05:32
Chlorobenzene	ND	0.0050	1	06/06/2018 05:32
Chloroethane	ND	0.0050	1	06/06/2018 05:32
Chloroform	ND	0.0050	1	06/06/2018 05:32
Chloromethane	ND	0.0050	1	06/06/2018 05:32
2-Chlorotoluene	ND	0.0050	1	06/06/2018 05:32
4-Chlorotoluene	ND	0.0050	1	06/06/2018 05:32
Dibromochloromethane	ND	0.0050	1	06/06/2018 05:32
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 05:32
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 05:32
Dibromomethane	ND	0.0050	1	06/06/2018 05:32
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 05:32
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 05:32
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 05:32
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 05:32
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 05:32
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 05:32
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 05:32
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 05:32
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 05:32
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 05:32
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 05:32
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 05:32

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC18 06051834.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 05:32
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 05:32
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 05:32
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 05:32
Ethylbenzene	ND	0.0050	1	06/06/2018 05:32
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 05:32
Freon 113	ND	0.0050	1	06/06/2018 05:32
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 05:32
Hexachloroethane	ND	0.0050	1	06/06/2018 05:32
2-Hexanone	ND	0.0050	1	06/06/2018 05:32
Isopropylbenzene	ND	0.0050	1	06/06/2018 05:32
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 05:32
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 05:32
Methylene chloride	ND	0.0050	1	06/06/2018 05:32
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 05:32
Naphthalene	ND	0.0050	1	06/06/2018 05:32
n-Propyl benzene	ND	0.0050	1	06/06/2018 05:32
Styrene	ND	0.0050	1	06/06/2018 05:32
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 05:32
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 05:32
Tetrachloroethene	ND	0.0050	1	06/06/2018 05:32
Toluene	ND	0.0050	1	06/06/2018 05:32
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 05:32
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 05:32
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 05:32
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 05:32
Trichloroethene	ND	0.0050	1	06/06/2018 05:32
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 05:32
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 05:32
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 05:32
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 05:32
Vinyl Chloride	ND	0.0050	1	06/06/2018 05:32
Xylenes, Total	ND	0.0050	1	06/06/2018 05:32

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC18 06051834.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	106		82-136	06/06/2018 05:32
Toluene-d8	124		92-139	06/06/2018 05:32
4-BFB	102		82-135	06/06/2018 05:32
Benzene-d6	9	S	55-122	06/06/2018 05:32
Ethylbenzene-d10	10	S	58-141	06/06/2018 05:32
1,2-DCB-d4	7	S	51-107	06/06/2018 05:32

Analyst(s): AK

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC18 06061810.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 13:22
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 13:22
Benzene	ND	0.0050	1	06/06/2018 13:22
Bromobenzene	ND	0.0050	1	06/06/2018 13:22
Bromochloromethane	ND	0.0050	1	06/06/2018 13:22
Bromodichloromethane	ND	0.0050	1	06/06/2018 13:22
Bromoform	ND	0.0050	1	06/06/2018 13:22
Bromomethane	ND	0.0050	1	06/06/2018 13:22
2-Butanone (MEK)	ND	0.020	1	06/06/2018 13:22
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 13:22
n-Butyl benzene	ND	0.0050	1	06/06/2018 13:22
sec-Butyl benzene	ND	0.0050	1	06/06/2018 13:22
tert-Butyl benzene	ND	0.0050	1	06/06/2018 13:22
Carbon Disulfide	ND	0.0050	1	06/06/2018 13:22
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 13:22
Chlorobenzene	ND	0.0050	1	06/06/2018 13:22
Chloroethane	ND	0.0050	1	06/06/2018 13:22
Chloroform	ND	0.0050	1	06/06/2018 13:22
Chloromethane	ND	0.0050	1	06/06/2018 13:22
2-Chlorotoluene	ND	0.0050	1	06/06/2018 13:22
4-Chlorotoluene	ND	0.0050	1	06/06/2018 13:22
Dibromochloromethane	ND	0.0050	1	06/06/2018 13:22
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 13:22
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 13:22
Dibromomethane	ND	0.0050	1	06/06/2018 13:22
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 13:22
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 13:22
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 13:22
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 13:22
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 13:22
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 13:22
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 13:22
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 13:22
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 13:22
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 13:22
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 13:22
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 13:22

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC18 06061810.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 13:22
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 13:22
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 13:22
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 13:22
Ethylbenzene	ND	0.0050	1	06/06/2018 13:22
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 13:22
Freon 113	ND	0.0050	1	06/06/2018 13:22
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 13:22
Hexachloroethane	ND	0.0050	1	06/06/2018 13:22
2-Hexanone	ND	0.0050	1	06/06/2018 13:22
Isopropylbenzene	ND	0.0050	1	06/06/2018 13:22
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 13:22
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 13:22
Methylene chloride	ND	0.0050	1	06/06/2018 13:22
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 13:22
Naphthalene	ND	0.0050	1	06/06/2018 13:22
n-Propyl benzene	ND	0.0050	1	06/06/2018 13:22
Styrene	ND	0.0050	1	06/06/2018 13:22
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 13:22
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 13:22
Tetrachloroethene	ND	0.0050	1	06/06/2018 13:22
Toluene	ND	0.0050	1	06/06/2018 13:22
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 13:22
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 13:22
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 13:22
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 13:22
Trichloroethene	ND	0.0050	1	06/06/2018 13:22
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 13:22
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 13:22
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 13:22
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 13:22
Vinyl Chloride	ND	0.0050	1	06/06/2018 13:22
Xylenes, Total	ND	0.0050	1	06/06/2018 13:22

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC18 06061810.D	159166

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	108		82-136	06/06/2018 13:22
Toluene-d8	122		92-139	06/06/2018 13:22
4-BFB	105		82-135	06/06/2018 13:22
Benzene-d6	9	S	55-122	06/06/2018 13:22
Ethylbenzene-d10	10	S	58-141	06/06/2018 13:22
1,2-DCB-d4	7	S	51-107	06/06/2018 13:22

Analyst(s): KF

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC18 06061811.D	159166

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 14:02
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 14:02
Benzene	ND	0.0050	1	06/06/2018 14:02
Bromobenzene	ND	0.0050	1	06/06/2018 14:02
Bromochloromethane	ND	0.0050	1	06/06/2018 14:02
Bromodichloromethane	ND	0.0050	1	06/06/2018 14:02
Bromoform	ND	0.0050	1	06/06/2018 14:02
Bromomethane	ND	0.0050	1	06/06/2018 14:02
2-Butanone (MEK)	ND	0.020	1	06/06/2018 14:02
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 14:02
n-Butyl benzene	ND	0.0050	1	06/06/2018 14:02
sec-Butyl benzene	ND	0.0050	1	06/06/2018 14:02
tert-Butyl benzene	ND	0.0050	1	06/06/2018 14:02
Carbon Disulfide	ND	0.0050	1	06/06/2018 14:02
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 14:02
Chlorobenzene	ND	0.0050	1	06/06/2018 14:02
Chloroethane	ND	0.0050	1	06/06/2018 14:02
Chloroform	ND	0.0050	1	06/06/2018 14:02
Chloromethane	ND	0.0050	1	06/06/2018 14:02
2-Chlorotoluene	ND	0.0050	1	06/06/2018 14:02
4-Chlorotoluene	ND	0.0050	1	06/06/2018 14:02
Dibromochloromethane	ND	0.0050	1	06/06/2018 14:02
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 14:02
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 14:02
Dibromomethane	ND	0.0050	1	06/06/2018 14:02
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 14:02
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 14:02
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 14:02
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 14:02
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 14:02
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 14:02
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 14:02
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 14:02
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 14:02
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 14:02
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 14:02
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 14:02

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC18 06061811.D	159166

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 14:02
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 14:02
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 14:02
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 14:02
Ethylbenzene	ND	0.0050	1	06/06/2018 14:02
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 14:02
Freon 113	ND	0.0050	1	06/06/2018 14:02
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 14:02
Hexachloroethane	ND	0.0050	1	06/06/2018 14:02
2-Hexanone	ND	0.0050	1	06/06/2018 14:02
Isopropylbenzene	ND	0.0050	1	06/06/2018 14:02
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 14:02
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 14:02
Methylene chloride	ND	0.0071	1	06/06/2018 14:02
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 14:02
Naphthalene	ND	0.0050	1	06/06/2018 14:02
n-Propyl benzene	ND	0.0050	1	06/06/2018 14:02
Styrene	ND	0.0050	1	06/06/2018 14:02
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 14:02
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 14:02
Tetrachloroethene	ND	0.0050	1	06/06/2018 14:02
Toluene	ND	0.0050	1	06/06/2018 14:02
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 14:02
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 14:02
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 14:02
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 14:02
Trichloroethene	ND	0.0050	1	06/06/2018 14:02
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 14:02
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 14:02
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 14:02
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 14:02
Vinyl Chloride	ND	0.0050	1	06/06/2018 14:02
Xylenes, Total	ND	0.0050	1	06/06/2018 14:02

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC18 06061811.D	159166

Analytes	Result	RL	DF	Date Analyzed
----------	--------	----	----	---------------

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	112		82-136	06/06/2018 14:02
Toluene-d8	123		92-139	06/06/2018 14:02
4-BFB	102		82-135	06/06/2018 14:02
Benzene-d6	9	S	55-122	06/06/2018 14:02
Ethylbenzene-d10	9	S	58-141	06/06/2018 14:02
1,2-DCB-d4	7	S	51-107	06/06/2018 14:02

Analyst(s): KF

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC18 06061809.D	159173

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	06/06/2018 12:42
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/06/2018 12:42
Benzene	ND	0.0050	1	06/06/2018 12:42
Bromobenzene	ND	0.0050	1	06/06/2018 12:42
Bromochloromethane	ND	0.0050	1	06/06/2018 12:42
Bromodichloromethane	ND	0.0050	1	06/06/2018 12:42
Bromoform	ND	0.0050	1	06/06/2018 12:42
Bromomethane	ND	0.0050	1	06/06/2018 12:42
2-Butanone (MEK)	ND	0.020	1	06/06/2018 12:42
t-Butyl alcohol (TBA)	ND	0.050	1	06/06/2018 12:42
n-Butyl benzene	ND	0.0050	1	06/06/2018 12:42
sec-Butyl benzene	ND	0.0050	1	06/06/2018 12:42
tert-Butyl benzene	ND	0.0050	1	06/06/2018 12:42
Carbon Disulfide	ND	0.0050	1	06/06/2018 12:42
Carbon Tetrachloride	ND	0.0050	1	06/06/2018 12:42
Chlorobenzene	ND	0.0050	1	06/06/2018 12:42
Chloroethane	ND	0.0050	1	06/06/2018 12:42
Chloroform	ND	0.0050	1	06/06/2018 12:42
Chloromethane	ND	0.0050	1	06/06/2018 12:42
2-Chlorotoluene	ND	0.0050	1	06/06/2018 12:42
4-Chlorotoluene	ND	0.0050	1	06/06/2018 12:42
Dibromochloromethane	ND	0.0050	1	06/06/2018 12:42
1,2-Dibromo-3-chloropropane	ND	0.0040	1	06/06/2018 12:42
1,2-Dibromoethane (EDB)	ND	0.0040	1	06/06/2018 12:42
Dibromomethane	ND	0.0050	1	06/06/2018 12:42
1,2-Dichlorobenzene	ND	0.0050	1	06/06/2018 12:42
1,3-Dichlorobenzene	ND	0.0050	1	06/06/2018 12:42
1,4-Dichlorobenzene	ND	0.0050	1	06/06/2018 12:42
Dichlorodifluoromethane	ND	0.0050	1	06/06/2018 12:42
1,1-Dichloroethane	ND	0.0050	1	06/06/2018 12:42
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	06/06/2018 12:42
1,1-Dichloroethene	ND	0.0050	1	06/06/2018 12:42
cis-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 12:42
trans-1,2-Dichloroethene	ND	0.0050	1	06/06/2018 12:42
1,2-Dichloropropane	ND	0.0050	1	06/06/2018 12:42
1,3-Dichloropropane	ND	0.0050	1	06/06/2018 12:42
2,2-Dichloropropane	ND	0.0050	1	06/06/2018 12:42

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC18 06061809.D	159173

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	06/06/2018 12:42
cis-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 12:42
trans-1,3-Dichloropropene	ND	0.0050	1	06/06/2018 12:42
Diisopropyl ether (DIPE)	ND	0.0050	1	06/06/2018 12:42
Ethylbenzene	ND	0.0050	1	06/06/2018 12:42
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/06/2018 12:42
Freon 113	ND	0.0050	1	06/06/2018 12:42
Hexachlorobutadiene	ND	0.0050	1	06/06/2018 12:42
Hexachloroethane	ND	0.0050	1	06/06/2018 12:42
2-Hexanone	ND	0.0050	1	06/06/2018 12:42
Isopropylbenzene	ND	0.0050	1	06/06/2018 12:42
4-Isopropyl toluene	ND	0.0050	1	06/06/2018 12:42
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/06/2018 12:42
Methylene chloride	ND	0.0050	1	06/06/2018 12:42
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/06/2018 12:42
Naphthalene	ND	0.0050	1	06/06/2018 12:42
n-Propyl benzene	ND	0.0050	1	06/06/2018 12:42
Styrene	ND	0.0050	1	06/06/2018 12:42
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 12:42
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/06/2018 12:42
Tetrachloroethene	ND	0.0050	1	06/06/2018 12:42
Toluene	ND	0.0050	1	06/06/2018 12:42
1,2,3-Trichlorobenzene	ND	0.0050	1	06/06/2018 12:42
1,2,4-Trichlorobenzene	ND	0.0050	1	06/06/2018 12:42
1,1,1-Trichloroethane	ND	0.0050	1	06/06/2018 12:42
1,1,2-Trichloroethane	ND	0.0050	1	06/06/2018 12:42
Trichloroethene	ND	0.0050	1	06/06/2018 12:42
Trichlorofluoromethane	ND	0.0050	1	06/06/2018 12:42
1,2,3-Trichloropropane	ND	0.0050	1	06/06/2018 12:42
1,2,4-Trimethylbenzene	ND	0.0050	1	06/06/2018 12:42
1,3,5-Trimethylbenzene	ND	0.0050	1	06/06/2018 12:42
Vinyl Chloride	ND	0.0050	1	06/06/2018 12:42
Xylenes, Total	ND	0.0050	1	06/06/2018 12:42

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC18 06061809.D	159173

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	109		82-136	06/06/2018 12:42
Toluene-d8	123		92-139	06/06/2018 12:42
4-BFB	103		82-135	06/06/2018 12:42
Benzene-d6	10	S	55-122	06/06/2018 12:42
Ethylbenzene-d10	10	S	58-141	06/06/2018 12:42
1,2-DCB-d4	8	S	51-107	06/06/2018 12:42

Analyst(s): KF

Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC18 06051827.D	159166
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	06/06/2018 00:56
Surrogates					
	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	118		82-136		06/06/2018 00:56
Benzene-D6	9	S	55-122		06/06/2018 00:56
Analyst(s): AK			Analytical Comments: j1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC10 06041815.D	159166
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	06/04/2018 17:05
Surrogates					
	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	99		82-136		06/04/2018 17:05
Benzene-D6	9	S	55-122		06/04/2018 17:05
Analyst(s): KF			Analytical Comments: j1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC18 06051828.D	159166
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	06/06/2018 01:35
Surrogates					
	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	119		82-136		06/06/2018 01:35
Benzene-D6	9	S	55-122		06/06/2018 01:35
Analyst(s): AK			Analytical Comments: j1		

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC18 06051829.D	159166

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	06/06/2018 02:14

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	118		82-136	06/06/2018 02:14
Benzene-D6	9	S	55-122	06/06/2018 02:14

Analyst(s): AK Analytical Comments: j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC18 06051830.D	159166

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	06/06/2018 02:54

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	119		82-136	06/06/2018 02:54
Benzene-D6	10	S	55-122	06/06/2018 02:54

Analyst(s): AK Analytical Comments: j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC18 06051831.D	159166

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	06/06/2018 03:33

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	112		82-136	06/06/2018 03:33
Benzene-D6	9	S	55-122	06/06/2018 03:33

Analyst(s): AK Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC18 06051832.D	159166

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	06/06/2018 04:13

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	107		82-136	06/06/2018 04:13
Benzene-D6	9	S	55-122	06/06/2018 04:13

Analyst(s): AK Analytical Comments: j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC18 06051833.D	159166

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	06/06/2018 04:52

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	112		82-136	06/06/2018 04:52
Benzene-D6	9	S	55-122	06/06/2018 04:52

Analyst(s): AK Analytical Comments: j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC18 06051834.D	159166

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	0.25	1	06/06/2018 05:32

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
Dibromofluoromethane	113		82-136	06/06/2018 05:32
Benzene-D6	9	S	55-122	06/06/2018 05:32

Analyst(s): AK Analytical Comments: j1



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC18 06061810.D	159166
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	06/06/2018 13:22
Surrogates					
	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	114		82-136		06/06/2018 13:22
Benzene-D6	9	S	55-122		06/06/2018 13:22
Analyst(s): KF			Analytical Comments: j1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC18 06061811.D	159166
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	06/06/2018 14:02
Surrogates					
	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	116		82-136		06/06/2018 14:02
Benzene-D6	9	S	55-122		06/06/2018 14:02
Analyst(s): KF			Analytical Comments: j1		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC18 06061809.D	159173
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		0.25	1	06/06/2018 12:42
Surrogates					
	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	116		82-136		06/06/2018 12:42
Benzene-D6	10	S	55-122		06/06/2018 12:42
Analyst(s): KF			Analytical Comments: j1		



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC17 06041809.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.50	2	06/04/2018 13:07
Acenaphthylene	ND	0.50	2	06/04/2018 13:07
Acetochlor	ND	0.50	2	06/04/2018 13:07
Anthracene	ND	0.50	2	06/04/2018 13:07
Benzidine	ND	2.6	2	06/04/2018 13:07
Benzo (a) anthracene	ND	0.50	2	06/04/2018 13:07
Benzo (a) pyrene	ND	0.50	2	06/04/2018 13:07
Benzo (b) fluoranthene	ND	0.50	2	06/04/2018 13:07
Benzo (g,h,i) perylene	ND	0.50	2	06/04/2018 13:07
Benzo (k) fluoranthene	ND	0.50	2	06/04/2018 13:07
Benzyl Alcohol	ND	2.6	2	06/04/2018 13:07
1,1-Biphenyl	ND	0.50	2	06/04/2018 13:07
Bis (2-chloroethoxy) Methane	ND	0.50	2	06/04/2018 13:07
Bis (2-chloroethyl) Ether	ND	0.50	2	06/04/2018 13:07
Bis (2-chloroisopropyl) Ether	ND	0.50	2	06/04/2018 13:07
Bis (2-ethylhexyl) Adipate	ND	0.50	2	06/04/2018 13:07
Bis (2-ethylhexyl) Phthalate	ND	0.50	2	06/04/2018 13:07
4-Bromophenyl Phenyl Ether	ND	0.50	2	06/04/2018 13:07
Butylbenzyl Phthalate	ND	0.50	2	06/04/2018 13:07
4-Chloroaniline	ND	1.0	2	06/04/2018 13:07
4-Chloro-3-methylphenol	ND	0.50	2	06/04/2018 13:07
2-Chloronaphthalene	ND	0.50	2	06/04/2018 13:07
2-Chlorophenol	ND	0.50	2	06/04/2018 13:07
4-Chlorophenyl Phenyl Ether	ND	0.50	2	06/04/2018 13:07
Chrysene	ND	0.50	2	06/04/2018 13:07
Dibenzo (a,h) anthracene	ND	0.50	2	06/04/2018 13:07
Dibenzofuran	ND	0.50	2	06/04/2018 13:07
Di-n-butyl Phthalate	ND	0.50	2	06/04/2018 13:07
1,2-Dichlorobenzene	ND	0.50	2	06/04/2018 13:07
1,3-Dichlorobenzene	ND	0.50	2	06/04/2018 13:07
1,4-Dichlorobenzene	ND	0.50	2	06/04/2018 13:07
3,3-Dichlorobenzidine	ND	1.0	2	06/04/2018 13:07
2,4-Dichlorophenol	ND	0.50	2	06/04/2018 13:07
Diethyl Phthalate	ND	0.50	2	06/04/2018 13:07
2,4-Dimethylphenol	ND	0.50	2	06/04/2018 13:07
Dimethyl Phthalate	ND	0.50	2	06/04/2018 13:07
4,6-Dinitro-2-methylphenol	ND	2.6	2	06/04/2018 13:07

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC17 06041809.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	13	2	06/04/2018 13:07	
2,4-Dinitrotoluene	ND	0.50	2	06/04/2018 13:07	
2,6-Dinitrotoluene	ND	0.50	2	06/04/2018 13:07	
Di-n-octyl Phthalate	ND	1.0	2	06/04/2018 13:07	
1,2-Diphenylhydrazine	ND	0.50	2	06/04/2018 13:07	
Fluoranthene	ND	0.50	2	06/04/2018 13:07	
Fluorene	ND	0.50	2	06/04/2018 13:07	
Hexachlorobenzene	ND	0.50	2	06/04/2018 13:07	
Hexachlorobutadiene	ND	0.50	2	06/04/2018 13:07	
Hexachlorocyclopentadiene	ND	2.6	2	06/04/2018 13:07	
Hexachloroethane	ND	0.50	2	06/04/2018 13:07	
Indeno (1,2,3-cd) pyrene	ND	0.50	2	06/04/2018 13:07	
Isophorone	ND	0.50	2	06/04/2018 13:07	
2-Methylnaphthalene	ND	0.50	2	06/04/2018 13:07	
2-Methylphenol (o-Cresol)	ND	0.50	2	06/04/2018 13:07	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.50	2	06/04/2018 13:07	
Naphthalene	ND	0.50	2	06/04/2018 13:07	
2-Nitroaniline	ND	2.6	2	06/04/2018 13:07	
3-Nitroaniline	ND	2.6	2	06/04/2018 13:07	
4-Nitroaniline	ND	2.6	2	06/04/2018 13:07	
Nitrobenzene	ND	0.50	2	06/04/2018 13:07	
2-Nitrophenol	ND	2.6	2	06/04/2018 13:07	
4-Nitrophenol	ND	2.6	2	06/04/2018 13:07	
N-Nitrosodiphenylamine	ND	0.50	2	06/04/2018 13:07	
N-Nitrosodi-n-propylamine	ND	0.50	2	06/04/2018 13:07	
Pentachlorophenol	ND	2.6	2	06/04/2018 13:07	
Phenanthrene	ND	0.50	2	06/04/2018 13:07	
Phenol	ND	0.50	2	06/04/2018 13:07	
Pyrene	ND	0.50	2	06/04/2018 13:07	
Pyridine	ND	0.50	2	06/04/2018 13:07	
1,2,4-Trichlorobenzene	ND	0.50	2	06/04/2018 13:07	
2,4,5-Trichlorophenol	ND	0.50	2	06/04/2018 13:07	
2,4,6-Trichlorophenol	ND	0.50	2	06/04/2018 13:07	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC17 06041809.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	125	30-130		06/04/2018 13:07
Phenol-d5	110	30-130		06/04/2018 13:07
Nitrobenzene-d5	107	30-130		06/04/2018 13:07
2-Fluorobiphenyl	96	30-130		06/04/2018 13:07
2,4,6-Tribromophenol	72	16-130		06/04/2018 13:07
4-Terphenyl-d14	102	30-130		06/04/2018 13:07

Analyst(s): REB

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC17 06041810.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/04/2018 13:35
Acenaphthylene	ND	0.25	1	06/04/2018 13:35
Acetochlor	ND	0.25	1	06/04/2018 13:35
Anthracene	ND	0.25	1	06/04/2018 13:35
Benzidine	ND	1.3	1	06/04/2018 13:35
Benzo (a) anthracene	ND	0.25	1	06/04/2018 13:35
Benzo (a) pyrene	ND	0.25	1	06/04/2018 13:35
Benzo (b) fluoranthene	ND	0.25	1	06/04/2018 13:35
Benzo (g,h,i) perylene	ND	0.25	1	06/04/2018 13:35
Benzo (k) fluoranthene	ND	0.25	1	06/04/2018 13:35
Benzyl Alcohol	ND	1.3	1	06/04/2018 13:35
1,1-Biphenyl	ND	0.25	1	06/04/2018 13:35
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/04/2018 13:35
Bis (2-chloroethyl) Ether	ND	0.25	1	06/04/2018 13:35
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/04/2018 13:35
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/04/2018 13:35
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/04/2018 13:35
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/04/2018 13:35
Butylbenzyl Phthalate	ND	0.25	1	06/04/2018 13:35
4-Chloroaniline	ND	0.50	1	06/04/2018 13:35
4-Chloro-3-methylphenol	ND	0.25	1	06/04/2018 13:35
2-Chloronaphthalene	ND	0.25	1	06/04/2018 13:35
2-Chlorophenol	ND	0.25	1	06/04/2018 13:35
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/04/2018 13:35
Chrysene	ND	0.25	1	06/04/2018 13:35
Dibenzo (a,h) anthracene	ND	0.25	1	06/04/2018 13:35
Dibenzofuran	ND	0.25	1	06/04/2018 13:35
Di-n-butyl Phthalate	ND	0.25	1	06/04/2018 13:35
1,2-Dichlorobenzene	ND	0.25	1	06/04/2018 13:35
1,3-Dichlorobenzene	ND	0.25	1	06/04/2018 13:35
1,4-Dichlorobenzene	ND	0.25	1	06/04/2018 13:35
3,3-Dichlorobenzidine	ND	0.50	1	06/04/2018 13:35
2,4-Dichlorophenol	ND	0.25	1	06/04/2018 13:35
Diethyl Phthalate	ND	0.25	1	06/04/2018 13:35
2,4-Dimethylphenol	ND	0.25	1	06/04/2018 13:35
Dimethyl Phthalate	ND	0.25	1	06/04/2018 13:35
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/04/2018 13:35

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC17 06041810.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	6.3	1	06/04/2018 13:35	
2,4-Dinitrotoluene	ND	0.25	1	06/04/2018 13:35	
2,6-Dinitrotoluene	ND	0.25	1	06/04/2018 13:35	
Di-n-octyl Phthalate	ND	0.50	1	06/04/2018 13:35	
1,2-Diphenylhydrazine	ND	0.25	1	06/04/2018 13:35	
Fluoranthene	ND	0.25	1	06/04/2018 13:35	
Fluorene	ND	0.25	1	06/04/2018 13:35	
Hexachlorobenzene	ND	0.25	1	06/04/2018 13:35	
Hexachlorobutadiene	ND	0.25	1	06/04/2018 13:35	
Hexachlorocyclopentadiene	ND	1.3	1	06/04/2018 13:35	
Hexachloroethane	ND	0.25	1	06/04/2018 13:35	
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/04/2018 13:35	
Isophorone	ND	0.25	1	06/04/2018 13:35	
2-Methylnaphthalene	ND	0.25	1	06/04/2018 13:35	
2-Methylphenol (o-Cresol)	ND	0.25	1	06/04/2018 13:35	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/04/2018 13:35	
Naphthalene	ND	0.25	1	06/04/2018 13:35	
2-Nitroaniline	ND	1.3	1	06/04/2018 13:35	
3-Nitroaniline	ND	1.3	1	06/04/2018 13:35	
4-Nitroaniline	ND	1.3	1	06/04/2018 13:35	
Nitrobenzene	ND	0.25	1	06/04/2018 13:35	
2-Nitrophenol	ND	1.3	1	06/04/2018 13:35	
4-Nitrophenol	ND	1.3	1	06/04/2018 13:35	
N-Nitrosodiphenylamine	ND	0.25	1	06/04/2018 13:35	
N-Nitrosodi-n-propylamine	ND	0.25	1	06/04/2018 13:35	
Pentachlorophenol	ND	1.3	1	06/04/2018 13:35	
Phenanthrene	ND	0.25	1	06/04/2018 13:35	
Phenol	ND	0.25	1	06/04/2018 13:35	
Pyrene	ND	0.25	1	06/04/2018 13:35	
Pyridine	ND	0.25	1	06/04/2018 13:35	
1,2,4-Trichlorobenzene	ND	0.25	1	06/04/2018 13:35	
2,4,5-Trichlorophenol	ND	0.25	1	06/04/2018 13:35	
2,4,6-Trichlorophenol	ND	0.25	1	06/04/2018 13:35	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC17 06041810.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	117	30-130		06/04/2018 13:35
Phenol-d5	106	30-130		06/04/2018 13:35
Nitrobenzene-d5	105	30-130		06/04/2018 13:35
2-Fluorobiphenyl	99	30-130		06/04/2018 13:35
2,4,6-Tribromophenol	78	16-130		06/04/2018 13:35
4-Terphenyl-d14	112	30-130		06/04/2018 13:35

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC17 06041811.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/04/2018 14:02
Acenaphthylene	ND	0.25	1	06/04/2018 14:02
Acetochlor	ND	0.25	1	06/04/2018 14:02
Anthracene	ND	0.25	1	06/04/2018 14:02
Benzidine	ND	1.3	1	06/04/2018 14:02
Benzo (a) anthracene	ND	0.25	1	06/04/2018 14:02
Benzo (a) pyrene	ND	0.25	1	06/04/2018 14:02
Benzo (b) fluoranthene	ND	0.25	1	06/04/2018 14:02
Benzo (g,h,i) perylene	ND	0.25	1	06/04/2018 14:02
Benzo (k) fluoranthene	ND	0.25	1	06/04/2018 14:02
Benzyl Alcohol	ND	1.3	1	06/04/2018 14:02
1,1-Biphenyl	ND	0.25	1	06/04/2018 14:02
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/04/2018 14:02
Bis (2-chloroethyl) Ether	ND	0.25	1	06/04/2018 14:02
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/04/2018 14:02
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/04/2018 14:02
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/04/2018 14:02
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/04/2018 14:02
Butylbenzyl Phthalate	ND	0.25	1	06/04/2018 14:02
4-Chloroaniline	ND	0.50	1	06/04/2018 14:02
4-Chloro-3-methylphenol	ND	0.25	1	06/04/2018 14:02
2-Chloronaphthalene	ND	0.25	1	06/04/2018 14:02
2-Chlorophenol	ND	0.25	1	06/04/2018 14:02
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/04/2018 14:02
Chrysene	ND	0.25	1	06/04/2018 14:02
Dibenzo (a,h) anthracene	ND	0.25	1	06/04/2018 14:02
Dibenzofuran	ND	0.25	1	06/04/2018 14:02
Di-n-butyl Phthalate	ND	0.25	1	06/04/2018 14:02
1,2-Dichlorobenzene	ND	0.25	1	06/04/2018 14:02
1,3-Dichlorobenzene	ND	0.25	1	06/04/2018 14:02
1,4-Dichlorobenzene	ND	0.25	1	06/04/2018 14:02
3,3-Dichlorobenzidine	ND	0.50	1	06/04/2018 14:02
2,4-Dichlorophenol	ND	0.25	1	06/04/2018 14:02
Diethyl Phthalate	ND	0.25	1	06/04/2018 14:02
2,4-Dimethylphenol	ND	0.25	1	06/04/2018 14:02
Dimethyl Phthalate	ND	0.25	1	06/04/2018 14:02
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/04/2018 14:02

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC17 06041811.D	159267

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	06/04/2018 14:02
2,4-Dinitrotoluene	ND	0.25	1	06/04/2018 14:02
2,6-Dinitrotoluene	ND	0.25	1	06/04/2018 14:02
Di-n-octyl Phthalate	ND	0.50	1	06/04/2018 14:02
1,2-Diphenylhydrazine	ND	0.25	1	06/04/2018 14:02
Fluoranthene	ND	0.25	1	06/04/2018 14:02
Fluorene	ND	0.25	1	06/04/2018 14:02
Hexachlorobenzene	ND	0.25	1	06/04/2018 14:02
Hexachlorobutadiene	ND	0.25	1	06/04/2018 14:02
Hexachlorocyclopentadiene	ND	1.3	1	06/04/2018 14:02
Hexachloroethane	ND	0.25	1	06/04/2018 14:02
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/04/2018 14:02
Isophorone	ND	0.25	1	06/04/2018 14:02
2-Methylnaphthalene	ND	0.25	1	06/04/2018 14:02
2-Methylphenol (o-Cresol)	ND	0.25	1	06/04/2018 14:02
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/04/2018 14:02
Naphthalene	ND	0.25	1	06/04/2018 14:02
2-Nitroaniline	ND	1.3	1	06/04/2018 14:02
3-Nitroaniline	ND	1.3	1	06/04/2018 14:02
4-Nitroaniline	ND	1.3	1	06/04/2018 14:02
Nitrobenzene	ND	0.25	1	06/04/2018 14:02
2-Nitrophenol	ND	1.3	1	06/04/2018 14:02
4-Nitrophenol	ND	1.3	1	06/04/2018 14:02
N-Nitrosodiphenylamine	ND	0.25	1	06/04/2018 14:02
N-Nitrosodi-n-propylamine	ND	0.25	1	06/04/2018 14:02
Pentachlorophenol	ND	1.3	1	06/04/2018 14:02
Phenanthrene	ND	0.25	1	06/04/2018 14:02
Phenol	ND	0.25	1	06/04/2018 14:02
Pyrene	ND	0.25	1	06/04/2018 14:02
Pyridine	ND	0.25	1	06/04/2018 14:02
1,2,4-Trichlorobenzene	ND	0.25	1	06/04/2018 14:02
2,4,5-Trichlorophenol	ND	0.25	1	06/04/2018 14:02
2,4,6-Trichlorophenol	ND	0.25	1	06/04/2018 14:02

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC17 06041811.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	140	S	30-130	06/04/2018 14:02
Phenol-d5	130		30-130	06/04/2018 14:02
Nitrobenzene-d5	126		30-130	06/04/2018 14:02
2-Fluorobiphenyl	120		30-130	06/04/2018 14:02
2,4,6-Tribromophenol	95		16-130	06/04/2018 14:02
4-Terphenyl-d14	141	S	30-130	06/04/2018 14:02

Analyst(s): REB

Analytical Comments: c11



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC17 06041812.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.50	2	06/04/2018 14:30
Acenaphthylene	ND	0.50	2	06/04/2018 14:30
Acetochlor	ND	0.50	2	06/04/2018 14:30
Anthracene	ND	0.50	2	06/04/2018 14:30
Benzidine	ND	2.6	2	06/04/2018 14:30
Benzo (a) anthracene	ND	0.50	2	06/04/2018 14:30
Benzo (a) pyrene	ND	0.50	2	06/04/2018 14:30
Benzo (b) fluoranthene	ND	0.50	2	06/04/2018 14:30
Benzo (g,h,i) perylene	ND	0.50	2	06/04/2018 14:30
Benzo (k) fluoranthene	ND	0.50	2	06/04/2018 14:30
Benzyl Alcohol	ND	2.6	2	06/04/2018 14:30
1,1-Biphenyl	ND	0.50	2	06/04/2018 14:30
Bis (2-chloroethoxy) Methane	ND	0.50	2	06/04/2018 14:30
Bis (2-chloroethyl) Ether	ND	0.50	2	06/04/2018 14:30
Bis (2-chloroisopropyl) Ether	ND	0.50	2	06/04/2018 14:30
Bis (2-ethylhexyl) Adipate	ND	0.50	2	06/04/2018 14:30
Bis (2-ethylhexyl) Phthalate	ND	0.50	2	06/04/2018 14:30
4-Bromophenyl Phenyl Ether	ND	0.50	2	06/04/2018 14:30
Butylbenzyl Phthalate	ND	0.50	2	06/04/2018 14:30
4-Chloroaniline	ND	1.0	2	06/04/2018 14:30
4-Chloro-3-methylphenol	ND	0.50	2	06/04/2018 14:30
2-Chloronaphthalene	ND	0.50	2	06/04/2018 14:30
2-Chlorophenol	ND	0.50	2	06/04/2018 14:30
4-Chlorophenyl Phenyl Ether	ND	0.50	2	06/04/2018 14:30
Chrysene	ND	0.50	2	06/04/2018 14:30
Dibenzo (a,h) anthracene	ND	0.50	2	06/04/2018 14:30
Dibenzofuran	ND	0.50	2	06/04/2018 14:30
Di-n-butyl Phthalate	ND	0.50	2	06/04/2018 14:30
1,2-Dichlorobenzene	ND	0.50	2	06/04/2018 14:30
1,3-Dichlorobenzene	ND	0.50	2	06/04/2018 14:30
1,4-Dichlorobenzene	ND	0.50	2	06/04/2018 14:30
3,3-Dichlorobenzidine	ND	1.0	2	06/04/2018 14:30
2,4-Dichlorophenol	ND	0.50	2	06/04/2018 14:30
Diethyl Phthalate	ND	0.50	2	06/04/2018 14:30
2,4-Dimethylphenol	ND	0.50	2	06/04/2018 14:30
Dimethyl Phthalate	ND	0.50	2	06/04/2018 14:30
4,6-Dinitro-2-methylphenol	ND	2.6	2	06/04/2018 14:30

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC17 06041812.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	13	2	06/04/2018 14:30	
2,4-Dinitrotoluene	ND	0.50	2	06/04/2018 14:30	
2,6-Dinitrotoluene	ND	0.50	2	06/04/2018 14:30	
Di-n-octyl Phthalate	ND	1.0	2	06/04/2018 14:30	
1,2-Diphenylhydrazine	ND	0.50	2	06/04/2018 14:30	
Fluoranthene	ND	0.50	2	06/04/2018 14:30	
Fluorene	ND	0.50	2	06/04/2018 14:30	
Hexachlorobenzene	ND	0.50	2	06/04/2018 14:30	
Hexachlorobutadiene	ND	0.50	2	06/04/2018 14:30	
Hexachlorocyclopentadiene	ND	2.6	2	06/04/2018 14:30	
Hexachloroethane	ND	0.50	2	06/04/2018 14:30	
Indeno (1,2,3-cd) pyrene	ND	0.50	2	06/04/2018 14:30	
Isophorone	ND	0.50	2	06/04/2018 14:30	
2-Methylnaphthalene	ND	0.50	2	06/04/2018 14:30	
2-Methylphenol (o-Cresol)	ND	0.50	2	06/04/2018 14:30	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.50	2	06/04/2018 14:30	
Naphthalene	ND	0.50	2	06/04/2018 14:30	
2-Nitroaniline	ND	2.6	2	06/04/2018 14:30	
3-Nitroaniline	ND	2.6	2	06/04/2018 14:30	
4-Nitroaniline	ND	2.6	2	06/04/2018 14:30	
Nitrobenzene	ND	0.50	2	06/04/2018 14:30	
2-Nitrophenol	ND	2.6	2	06/04/2018 14:30	
4-Nitrophenol	ND	2.6	2	06/04/2018 14:30	
N-Nitrosodiphenylamine	ND	0.50	2	06/04/2018 14:30	
N-Nitrosodi-n-propylamine	ND	0.50	2	06/04/2018 14:30	
Pentachlorophenol	ND	2.6	2	06/04/2018 14:30	
Phenanthrene	ND	0.50	2	06/04/2018 14:30	
Phenol	ND	0.50	2	06/04/2018 14:30	
Pyrene	ND	0.50	2	06/04/2018 14:30	
Pyridine	ND	0.50	2	06/04/2018 14:30	
1,2,4-Trichlorobenzene	ND	0.50	2	06/04/2018 14:30	
2,4,5-Trichlorophenol	ND	0.50	2	06/04/2018 14:30	
2,4,6-Trichlorophenol	ND	0.50	2	06/04/2018 14:30	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC17 06041812.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	111	30-130		06/04/2018 14:30
Phenol-d5	97	30-130		06/04/2018 14:30
Nitrobenzene-d5	100	30-130		06/04/2018 14:30
2-Fluorobiphenyl	89	30-130		06/04/2018 14:30
2,4,6-Tribromophenol	64	16-130		06/04/2018 14:30
4-Terphenyl-d14	97	30-130		06/04/2018 14:30

Analyst(s): REB

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC17 06041813.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/04/2018 14:57
Acenaphthylene	ND	0.25	1	06/04/2018 14:57
Acetochlor	ND	0.25	1	06/04/2018 14:57
Anthracene	ND	0.25	1	06/04/2018 14:57
Benzidine	ND	1.3	1	06/04/2018 14:57
Benzo (a) anthracene	ND	0.25	1	06/04/2018 14:57
Benzo (a) pyrene	ND	0.25	1	06/04/2018 14:57
Benzo (b) fluoranthene	ND	0.25	1	06/04/2018 14:57
Benzo (g,h,i) perylene	ND	0.25	1	06/04/2018 14:57
Benzo (k) fluoranthene	ND	0.25	1	06/04/2018 14:57
Benzyl Alcohol	ND	1.3	1	06/04/2018 14:57
1,1-Biphenyl	ND	0.25	1	06/04/2018 14:57
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/04/2018 14:57
Bis (2-chloroethyl) Ether	ND	0.25	1	06/04/2018 14:57
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/04/2018 14:57
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/04/2018 14:57
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/04/2018 14:57
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/04/2018 14:57
Butylbenzyl Phthalate	ND	0.25	1	06/04/2018 14:57
4-Chloroaniline	ND	0.50	1	06/04/2018 14:57
4-Chloro-3-methylphenol	ND	0.25	1	06/04/2018 14:57
2-Chloronaphthalene	ND	0.25	1	06/04/2018 14:57
2-Chlorophenol	ND	0.25	1	06/04/2018 14:57
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/04/2018 14:57
Chrysene	ND	0.25	1	06/04/2018 14:57
Dibenzo (a,h) anthracene	ND	0.25	1	06/04/2018 14:57
Dibenzofuran	ND	0.25	1	06/04/2018 14:57
Di-n-butyl Phthalate	ND	0.25	1	06/04/2018 14:57
1,2-Dichlorobenzene	ND	0.25	1	06/04/2018 14:57
1,3-Dichlorobenzene	ND	0.25	1	06/04/2018 14:57
1,4-Dichlorobenzene	ND	0.25	1	06/04/2018 14:57
3,3-Dichlorobenzidine	ND	0.50	1	06/04/2018 14:57
2,4-Dichlorophenol	ND	0.25	1	06/04/2018 14:57
Diethyl Phthalate	ND	0.25	1	06/04/2018 14:57
2,4-Dimethylphenol	ND	0.25	1	06/04/2018 14:57
Dimethyl Phthalate	ND	0.25	1	06/04/2018 14:57
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/04/2018 14:57

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC17 06041813.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	6.3	1	06/04/2018 14:57	
2,4-Dinitrotoluene	ND	0.25	1	06/04/2018 14:57	
2,6-Dinitrotoluene	ND	0.25	1	06/04/2018 14:57	
Di-n-octyl Phthalate	ND	0.50	1	06/04/2018 14:57	
1,2-Diphenylhydrazine	ND	0.25	1	06/04/2018 14:57	
Fluoranthene	ND	0.25	1	06/04/2018 14:57	
Fluorene	ND	0.25	1	06/04/2018 14:57	
Hexachlorobenzene	ND	0.25	1	06/04/2018 14:57	
Hexachlorobutadiene	ND	0.25	1	06/04/2018 14:57	
Hexachlorocyclopentadiene	ND	1.3	1	06/04/2018 14:57	
Hexachloroethane	ND	0.25	1	06/04/2018 14:57	
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/04/2018 14:57	
Isophorone	ND	0.25	1	06/04/2018 14:57	
2-Methylnaphthalene	ND	0.25	1	06/04/2018 14:57	
2-Methylphenol (o-Cresol)	ND	0.25	1	06/04/2018 14:57	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/04/2018 14:57	
Naphthalene	ND	0.25	1	06/04/2018 14:57	
2-Nitroaniline	ND	1.3	1	06/04/2018 14:57	
3-Nitroaniline	ND	1.3	1	06/04/2018 14:57	
4-Nitroaniline	ND	1.3	1	06/04/2018 14:57	
Nitrobenzene	ND	0.25	1	06/04/2018 14:57	
2-Nitrophenol	ND	1.3	1	06/04/2018 14:57	
4-Nitrophenol	ND	1.3	1	06/04/2018 14:57	
N-Nitrosodiphenylamine	ND	0.25	1	06/04/2018 14:57	
N-Nitrosodi-n-propylamine	ND	0.25	1	06/04/2018 14:57	
Pentachlorophenol	ND	1.3	1	06/04/2018 14:57	
Phenanthrene	ND	0.25	1	06/04/2018 14:57	
Phenol	ND	0.25	1	06/04/2018 14:57	
Pyrene	ND	0.25	1	06/04/2018 14:57	
Pyridine	ND	0.25	1	06/04/2018 14:57	
1,2,4-Trichlorobenzene	ND	0.25	1	06/04/2018 14:57	
2,4,5-Trichlorophenol	ND	0.25	1	06/04/2018 14:57	
2,4,6-Trichlorophenol	ND	0.25	1	06/04/2018 14:57	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC17 06041813.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	140	S	30-130	06/04/2018 14:57
Phenol-d5	130		30-130	06/04/2018 14:57
Nitrobenzene-d5	130		30-130	06/04/2018 14:57
2-Fluorobiphenyl	123		30-130	06/04/2018 14:57
2,4,6-Tribromophenol	88		16-130	06/04/2018 14:57
4-Terphenyl-d14	138	S	30-130	06/04/2018 14:57

Analyst(s): REB

Analytical Comments: c11



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC17 06041814.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.50	2	06/04/2018 15:24
Acenaphthylene	ND	0.50	2	06/04/2018 15:24
Acetochlor	ND	0.50	2	06/04/2018 15:24
Anthracene	ND	0.50	2	06/04/2018 15:24
Benzidine	ND	2.6	2	06/04/2018 15:24
Benzo (a) anthracene	ND	0.50	2	06/04/2018 15:24
Benzo (a) pyrene	ND	0.50	2	06/04/2018 15:24
Benzo (b) fluoranthene	ND	0.50	2	06/04/2018 15:24
Benzo (g,h,i) perylene	ND	0.50	2	06/04/2018 15:24
Benzo (k) fluoranthene	ND	0.50	2	06/04/2018 15:24
Benzyl Alcohol	ND	2.6	2	06/04/2018 15:24
1,1-Biphenyl	ND	0.50	2	06/04/2018 15:24
Bis (2-chloroethoxy) Methane	ND	0.50	2	06/04/2018 15:24
Bis (2-chloroethyl) Ether	ND	0.50	2	06/04/2018 15:24
Bis (2-chloroisopropyl) Ether	ND	0.50	2	06/04/2018 15:24
Bis (2-ethylhexyl) Adipate	ND	0.50	2	06/04/2018 15:24
Bis (2-ethylhexyl) Phthalate	ND	0.50	2	06/04/2018 15:24
4-Bromophenyl Phenyl Ether	ND	0.50	2	06/04/2018 15:24
Butylbenzyl Phthalate	ND	0.50	2	06/04/2018 15:24
4-Chloroaniline	ND	1.0	2	06/04/2018 15:24
4-Chloro-3-methylphenol	ND	0.50	2	06/04/2018 15:24
2-Chloronaphthalene	ND	0.50	2	06/04/2018 15:24
2-Chlorophenol	ND	0.50	2	06/04/2018 15:24
4-Chlorophenyl Phenyl Ether	ND	0.50	2	06/04/2018 15:24
Chrysene	ND	0.50	2	06/04/2018 15:24
Dibenzo (a,h) anthracene	ND	0.50	2	06/04/2018 15:24
Dibenzofuran	ND	0.50	2	06/04/2018 15:24
Di-n-butyl Phthalate	ND	0.50	2	06/04/2018 15:24
1,2-Dichlorobenzene	ND	0.50	2	06/04/2018 15:24
1,3-Dichlorobenzene	ND	0.50	2	06/04/2018 15:24
1,4-Dichlorobenzene	ND	0.50	2	06/04/2018 15:24
3,3-Dichlorobenzidine	ND	1.0	2	06/04/2018 15:24
2,4-Dichlorophenol	ND	0.50	2	06/04/2018 15:24
Diethyl Phthalate	ND	0.50	2	06/04/2018 15:24
2,4-Dimethylphenol	ND	0.50	2	06/04/2018 15:24
Dimethyl Phthalate	ND	0.50	2	06/04/2018 15:24
4,6-Dinitro-2-methylphenol	ND	2.6	2	06/04/2018 15:24

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC17 06041814.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	13	2	06/04/2018 15:24	
2,4-Dinitrotoluene	ND	0.50	2	06/04/2018 15:24	
2,6-Dinitrotoluene	ND	0.50	2	06/04/2018 15:24	
Di-n-octyl Phthalate	ND	1.0	2	06/04/2018 15:24	
1,2-Diphenylhydrazine	ND	0.50	2	06/04/2018 15:24	
Fluoranthene	ND	0.50	2	06/04/2018 15:24	
Fluorene	ND	0.50	2	06/04/2018 15:24	
Hexachlorobenzene	ND	0.50	2	06/04/2018 15:24	
Hexachlorobutadiene	ND	0.50	2	06/04/2018 15:24	
Hexachlorocyclopentadiene	ND	2.6	2	06/04/2018 15:24	
Hexachloroethane	ND	0.50	2	06/04/2018 15:24	
Indeno (1,2,3-cd) pyrene	ND	0.50	2	06/04/2018 15:24	
Isophorone	ND	0.50	2	06/04/2018 15:24	
2-Methylnaphthalene	ND	0.50	2	06/04/2018 15:24	
2-Methylphenol (o-Cresol)	ND	0.50	2	06/04/2018 15:24	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.50	2	06/04/2018 15:24	
Naphthalene	ND	0.50	2	06/04/2018 15:24	
2-Nitroaniline	ND	2.6	2	06/04/2018 15:24	
3-Nitroaniline	ND	2.6	2	06/04/2018 15:24	
4-Nitroaniline	ND	2.6	2	06/04/2018 15:24	
Nitrobenzene	ND	0.50	2	06/04/2018 15:24	
2-Nitrophenol	ND	2.6	2	06/04/2018 15:24	
4-Nitrophenol	ND	2.6	2	06/04/2018 15:24	
N-Nitrosodiphenylamine	ND	0.50	2	06/04/2018 15:24	
N-Nitrosodi-n-propylamine	ND	0.50	2	06/04/2018 15:24	
Pentachlorophenol	ND	2.6	2	06/04/2018 15:24	
Phenanthrene	ND	0.50	2	06/04/2018 15:24	
Phenol	ND	0.50	2	06/04/2018 15:24	
Pyrene	ND	0.50	2	06/04/2018 15:24	
Pyridine	ND	0.50	2	06/04/2018 15:24	
1,2,4-Trichlorobenzene	ND	0.50	2	06/04/2018 15:24	
2,4,5-Trichlorophenol	ND	0.50	2	06/04/2018 15:24	
2,4,6-Trichlorophenol	ND	0.50	2	06/04/2018 15:24	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC17 06041814.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	107	30-130		06/04/2018 15:24
Phenol-d5	94	30-130		06/04/2018 15:24
Nitrobenzene-d5	97	30-130		06/04/2018 15:24
2-Fluorobiphenyl	91	30-130		06/04/2018 15:24
2,4,6-Tribromophenol	67	16-130		06/04/2018 15:24
4-Terphenyl-d14	93	30-130		06/04/2018 15:24

Analyst(s): REB

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC21 06041821.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/04/2018 18:33
Acenaphthylene	ND	0.25	1	06/04/2018 18:33
Acetochlor	ND	0.25	1	06/04/2018 18:33
Anthracene	ND	0.25	1	06/04/2018 18:33
Benzidine	ND	1.3	1	06/04/2018 18:33
Benzo (a) anthracene	ND	0.25	1	06/04/2018 18:33
Benzo (a) pyrene	ND	0.25	1	06/04/2018 18:33
Benzo (b) fluoranthene	ND	0.25	1	06/04/2018 18:33
Benzo (g,h,i) perylene	ND	0.25	1	06/04/2018 18:33
Benzo (k) fluoranthene	ND	0.25	1	06/04/2018 18:33
Benzyl Alcohol	ND	1.3	1	06/04/2018 18:33
1,1-Biphenyl	ND	0.25	1	06/04/2018 18:33
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/04/2018 18:33
Bis (2-chloroethyl) Ether	ND	0.25	1	06/04/2018 18:33
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/04/2018 18:33
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/04/2018 18:33
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/04/2018 18:33
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/04/2018 18:33
Butylbenzyl Phthalate	ND	0.25	1	06/04/2018 18:33
4-Chloroaniline	ND	0.50	1	06/04/2018 18:33
4-Chloro-3-methylphenol	ND	0.25	1	06/04/2018 18:33
2-Chloronaphthalene	ND	0.25	1	06/04/2018 18:33
2-Chlorophenol	ND	0.25	1	06/04/2018 18:33
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/04/2018 18:33
Chrysene	ND	0.25	1	06/04/2018 18:33
Dibenzo (a,h) anthracene	ND	0.25	1	06/04/2018 18:33
Dibenzofuran	ND	0.25	1	06/04/2018 18:33
Di-n-butyl Phthalate	ND	0.25	1	06/04/2018 18:33
1,2-Dichlorobenzene	ND	0.25	1	06/04/2018 18:33
1,3-Dichlorobenzene	ND	0.25	1	06/04/2018 18:33
1,4-Dichlorobenzene	ND	0.25	1	06/04/2018 18:33
3,3-Dichlorobenzidine	ND	0.50	1	06/04/2018 18:33
2,4-Dichlorophenol	ND	0.25	1	06/04/2018 18:33
Diethyl Phthalate	ND	0.25	1	06/04/2018 18:33
2,4-Dimethylphenol	ND	0.25	1	06/04/2018 18:33
Dimethyl Phthalate	ND	0.25	1	06/04/2018 18:33
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/04/2018 18:33

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC21 06041821.D	159267
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
2,4-Dinitrophenol	ND		6.3	1	06/04/2018 18:33
2,4-Dinitrotoluene	ND		0.25	1	06/04/2018 18:33
2,6-Dinitrotoluene	ND		0.25	1	06/04/2018 18:33
Di-n-octyl Phthalate	ND		0.50	1	06/04/2018 18:33
1,2-Diphenylhydrazine	ND		0.25	1	06/04/2018 18:33
Fluoranthene	ND		0.25	1	06/04/2018 18:33
Fluorene	ND		0.25	1	06/04/2018 18:33
Hexachlorobenzene	ND		0.25	1	06/04/2018 18:33
Hexachlorobutadiene	ND		0.25	1	06/04/2018 18:33
Hexachlorocyclopentadiene	ND		1.3	1	06/04/2018 18:33
Hexachloroethane	ND		0.25	1	06/04/2018 18:33
Indeno (1,2,3-cd) pyrene	ND		0.25	1	06/04/2018 18:33
Isophorone	ND		0.25	1	06/04/2018 18:33
2-Methylnaphthalene	ND		0.25	1	06/04/2018 18:33
2-Methylphenol (o-Cresol)	ND		0.25	1	06/04/2018 18:33
3 & 4-Methylphenol (m,p-Cresol)	ND		0.25	1	06/04/2018 18:33
Naphthalene	ND		0.25	1	06/04/2018 18:33
2-Nitroaniline	ND		1.3	1	06/04/2018 18:33
3-Nitroaniline	ND		1.3	1	06/04/2018 18:33
4-Nitroaniline	ND		1.3	1	06/04/2018 18:33
Nitrobenzene	ND		0.25	1	06/04/2018 18:33
2-Nitrophenol	ND		1.3	1	06/04/2018 18:33
4-Nitrophenol	ND		1.3	1	06/04/2018 18:33
N-Nitrosodiphenylamine	ND		0.25	1	06/04/2018 18:33
N-Nitrosodi-n-propylamine	ND		0.25	1	06/04/2018 18:33
Pentachlorophenol	ND		1.3	1	06/04/2018 18:33
Phenanthrene	ND		0.25	1	06/04/2018 18:33
Phenol	ND		0.25	1	06/04/2018 18:33
Pyrene	ND		0.25	1	06/04/2018 18:33
Pyridine	ND		0.25	1	06/04/2018 18:33
1,2,4-Trichlorobenzene	ND		0.25	1	06/04/2018 18:33
2,4,5-Trichlorophenol	ND		0.25	1	06/04/2018 18:33
2,4,6-Trichlorophenol	ND		0.25	1	06/04/2018 18:33

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC21 06041821.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	109	30-130		06/04/2018 18:33
Phenol-d5	118	30-130		06/04/2018 18:33
Nitrobenzene-d5	97	30-130		06/04/2018 18:33
2-Fluorobiphenyl	86	30-130		06/04/2018 18:33
2,4,6-Tribromophenol	61	16-130		06/04/2018 18:33
4-Terphenyl-d14	82	30-130		06/04/2018 18:33

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC21 06041822.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/04/2018 19:00
Acenaphthylene	ND	0.25	1	06/04/2018 19:00
Acetochlor	ND	0.25	1	06/04/2018 19:00
Anthracene	ND	0.25	1	06/04/2018 19:00
Benzidine	ND	1.3	1	06/04/2018 19:00
Benzo (a) anthracene	ND	0.25	1	06/04/2018 19:00
Benzo (a) pyrene	ND	0.25	1	06/04/2018 19:00
Benzo (b) fluoranthene	ND	0.25	1	06/04/2018 19:00
Benzo (g,h,i) perylene	ND	0.25	1	06/04/2018 19:00
Benzo (k) fluoranthene	ND	0.25	1	06/04/2018 19:00
Benzyl Alcohol	ND	1.3	1	06/04/2018 19:00
1,1-Biphenyl	ND	0.25	1	06/04/2018 19:00
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/04/2018 19:00
Bis (2-chloroethyl) Ether	ND	0.25	1	06/04/2018 19:00
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/04/2018 19:00
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/04/2018 19:00
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/04/2018 19:00
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/04/2018 19:00
Butylbenzyl Phthalate	ND	0.25	1	06/04/2018 19:00
4-Chloroaniline	ND	0.50	1	06/04/2018 19:00
4-Chloro-3-methylphenol	ND	0.25	1	06/04/2018 19:00
2-Chloronaphthalene	ND	0.25	1	06/04/2018 19:00
2-Chlorophenol	ND	0.25	1	06/04/2018 19:00
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/04/2018 19:00
Chrysene	ND	0.25	1	06/04/2018 19:00
Dibenzo (a,h) anthracene	ND	0.25	1	06/04/2018 19:00
Dibenzofuran	ND	0.25	1	06/04/2018 19:00
Di-n-butyl Phthalate	ND	0.25	1	06/04/2018 19:00
1,2-Dichlorobenzene	ND	0.25	1	06/04/2018 19:00
1,3-Dichlorobenzene	ND	0.25	1	06/04/2018 19:00
1,4-Dichlorobenzene	ND	0.25	1	06/04/2018 19:00
3,3-Dichlorobenzidine	ND	0.50	1	06/04/2018 19:00
2,4-Dichlorophenol	ND	0.25	1	06/04/2018 19:00
Diethyl Phthalate	ND	0.25	1	06/04/2018 19:00
2,4-Dimethylphenol	ND	0.25	1	06/04/2018 19:00
Dimethyl Phthalate	ND	0.25	1	06/04/2018 19:00
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/04/2018 19:00

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC21 06041822.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	6.3	1	06/04/2018 19:00	
2,4-Dinitrotoluene	ND	0.25	1	06/04/2018 19:00	
2,6-Dinitrotoluene	ND	0.25	1	06/04/2018 19:00	
Di-n-octyl Phthalate	ND	0.50	1	06/04/2018 19:00	
1,2-Diphenylhydrazine	ND	0.25	1	06/04/2018 19:00	
Fluoranthene	ND	0.25	1	06/04/2018 19:00	
Fluorene	ND	0.25	1	06/04/2018 19:00	
Hexachlorobenzene	ND	0.25	1	06/04/2018 19:00	
Hexachlorobutadiene	ND	0.25	1	06/04/2018 19:00	
Hexachlorocyclopentadiene	ND	1.3	1	06/04/2018 19:00	
Hexachloroethane	ND	0.25	1	06/04/2018 19:00	
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/04/2018 19:00	
Isophorone	ND	0.25	1	06/04/2018 19:00	
2-Methylnaphthalene	ND	0.25	1	06/04/2018 19:00	
2-Methylphenol (o-Cresol)	ND	0.25	1	06/04/2018 19:00	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/04/2018 19:00	
Naphthalene	ND	0.25	1	06/04/2018 19:00	
2-Nitroaniline	ND	1.3	1	06/04/2018 19:00	
3-Nitroaniline	ND	1.3	1	06/04/2018 19:00	
4-Nitroaniline	ND	1.3	1	06/04/2018 19:00	
Nitrobenzene	ND	0.25	1	06/04/2018 19:00	
2-Nitrophenol	ND	1.3	1	06/04/2018 19:00	
4-Nitrophenol	ND	1.3	1	06/04/2018 19:00	
N-Nitrosodiphenylamine	ND	0.25	1	06/04/2018 19:00	
N-Nitrosodi-n-propylamine	ND	0.25	1	06/04/2018 19:00	
Pentachlorophenol	ND	1.3	1	06/04/2018 19:00	
Phenanthrene	ND	0.25	1	06/04/2018 19:00	
Phenol	ND	0.25	1	06/04/2018 19:00	
Pyrene	ND	0.25	1	06/04/2018 19:00	
Pyridine	ND	0.25	1	06/04/2018 19:00	
1,2,4-Trichlorobenzene	ND	0.25	1	06/04/2018 19:00	
2,4,5-Trichlorophenol	ND	0.25	1	06/04/2018 19:00	
2,4,6-Trichlorophenol	ND	0.25	1	06/04/2018 19:00	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC21 06041822.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	114	30-130		06/04/2018 19:00
Phenol-d5	122	30-130		06/04/2018 19:00
Nitrobenzene-d5	106	30-130		06/04/2018 19:00
2-Fluorobiphenyl	93	30-130		06/04/2018 19:00
2,4,6-Tribromophenol	68	16-130		06/04/2018 19:00
4-Terphenyl-d14	89	30-130		06/04/2018 19:00

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC21 06041823.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/04/2018 19:27
Acenaphthylene	ND	0.25	1	06/04/2018 19:27
Acetochlor	ND	0.25	1	06/04/2018 19:27
Anthracene	ND	0.25	1	06/04/2018 19:27
Benzidine	ND	1.3	1	06/04/2018 19:27
Benzo (a) anthracene	ND	0.25	1	06/04/2018 19:27
Benzo (a) pyrene	ND	0.25	1	06/04/2018 19:27
Benzo (b) fluoranthene	ND	0.25	1	06/04/2018 19:27
Benzo (g,h,i) perylene	ND	0.25	1	06/04/2018 19:27
Benzo (k) fluoranthene	ND	0.25	1	06/04/2018 19:27
Benzyl Alcohol	ND	1.3	1	06/04/2018 19:27
1,1-Biphenyl	ND	0.25	1	06/04/2018 19:27
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/04/2018 19:27
Bis (2-chloroethyl) Ether	ND	0.25	1	06/04/2018 19:27
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/04/2018 19:27
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/04/2018 19:27
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/04/2018 19:27
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/04/2018 19:27
Butylbenzyl Phthalate	ND	0.25	1	06/04/2018 19:27
4-Chloroaniline	ND	0.50	1	06/04/2018 19:27
4-Chloro-3-methylphenol	ND	0.25	1	06/04/2018 19:27
2-Chloronaphthalene	ND	0.25	1	06/04/2018 19:27
2-Chlorophenol	ND	0.25	1	06/04/2018 19:27
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/04/2018 19:27
Chrysene	ND	0.25	1	06/04/2018 19:27
Dibenzo (a,h) anthracene	ND	0.25	1	06/04/2018 19:27
Dibenzofuran	ND	0.25	1	06/04/2018 19:27
Di-n-butyl Phthalate	ND	0.25	1	06/04/2018 19:27
1,2-Dichlorobenzene	ND	0.25	1	06/04/2018 19:27
1,3-Dichlorobenzene	ND	0.25	1	06/04/2018 19:27
1,4-Dichlorobenzene	ND	0.25	1	06/04/2018 19:27
3,3-Dichlorobenzidine	ND	0.50	1	06/04/2018 19:27
2,4-Dichlorophenol	ND	0.25	1	06/04/2018 19:27
Diethyl Phthalate	ND	0.25	1	06/04/2018 19:27
2,4-Dimethylphenol	ND	0.25	1	06/04/2018 19:27
Dimethyl Phthalate	ND	0.25	1	06/04/2018 19:27
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/04/2018 19:27

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC21 06041823.D	159267

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.3	1	06/04/2018 19:27
2,4-Dinitrotoluene	ND	0.25	1	06/04/2018 19:27
2,6-Dinitrotoluene	ND	0.25	1	06/04/2018 19:27
Di-n-octyl Phthalate	ND	0.50	1	06/04/2018 19:27
1,2-Diphenylhydrazine	ND	0.25	1	06/04/2018 19:27
Fluoranthene	ND	0.25	1	06/04/2018 19:27
Fluorene	ND	0.25	1	06/04/2018 19:27
Hexachlorobenzene	ND	0.25	1	06/04/2018 19:27
Hexachlorobutadiene	ND	0.25	1	06/04/2018 19:27
Hexachlorocyclopentadiene	ND	1.3	1	06/04/2018 19:27
Hexachloroethane	ND	0.25	1	06/04/2018 19:27
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/04/2018 19:27
Isophorone	ND	0.25	1	06/04/2018 19:27
2-Methylnaphthalene	ND	0.25	1	06/04/2018 19:27
2-Methylphenol (o-Cresol)	ND	0.25	1	06/04/2018 19:27
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/04/2018 19:27
Naphthalene	ND	0.25	1	06/04/2018 19:27
2-Nitroaniline	ND	1.3	1	06/04/2018 19:27
3-Nitroaniline	ND	1.3	1	06/04/2018 19:27
4-Nitroaniline	ND	1.3	1	06/04/2018 19:27
Nitrobenzene	ND	0.25	1	06/04/2018 19:27
2-Nitrophenol	ND	1.3	1	06/04/2018 19:27
4-Nitrophenol	ND	1.3	1	06/04/2018 19:27
N-Nitrosodiphenylamine	ND	0.25	1	06/04/2018 19:27
N-Nitrosodi-n-propylamine	ND	0.25	1	06/04/2018 19:27
Pentachlorophenol	ND	1.3	1	06/04/2018 19:27
Phenanthrene	ND	0.25	1	06/04/2018 19:27
Phenol	ND	0.25	1	06/04/2018 19:27
Pyrene	ND	0.25	1	06/04/2018 19:27
Pyridine	ND	0.25	1	06/04/2018 19:27
1,2,4-Trichlorobenzene	ND	0.25	1	06/04/2018 19:27
2,4,5-Trichlorophenol	ND	0.25	1	06/04/2018 19:27
2,4,6-Trichlorophenol	ND	0.25	1	06/04/2018 19:27

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC21 06041823.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
2-Fluorophenol	144	S	30-130	06/04/2018 19:27
Phenol-d5	157	S	30-130	06/04/2018 19:27
Nitrobenzene-d5	126		30-130	06/04/2018 19:27
2-Fluorobiphenyl	109		30-130	06/04/2018 19:27
2,4,6-Tribromophenol	86		16-130	06/04/2018 19:27
4-Terphenyl-d14	108		30-130	06/04/2018 19:27

Analyst(s): REB

Analytical Comments: c11



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC17 06051808.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/05/2018 12:33
Acenaphthylene	ND	0.25	1	06/05/2018 12:33
Acetochlor	ND	0.25	1	06/05/2018 12:33
Anthracene	ND	0.25	1	06/05/2018 12:33
Benzidine	ND	1.3	1	06/05/2018 12:33
Benzo (a) anthracene	ND	0.25	1	06/05/2018 12:33
Benzo (a) pyrene	ND	0.25	1	06/05/2018 12:33
Benzo (b) fluoranthene	ND	0.25	1	06/05/2018 12:33
Benzo (g,h,i) perylene	ND	0.25	1	06/05/2018 12:33
Benzo (k) fluoranthene	ND	0.25	1	06/05/2018 12:33
Benzyl Alcohol	ND	1.3	1	06/05/2018 12:33
1,1-Biphenyl	ND	0.25	1	06/05/2018 12:33
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/05/2018 12:33
Bis (2-chloroethyl) Ether	ND	0.25	1	06/05/2018 12:33
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/05/2018 12:33
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/05/2018 12:33
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/05/2018 12:33
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/05/2018 12:33
Butylbenzyl Phthalate	ND	0.25	1	06/05/2018 12:33
4-Chloroaniline	ND	0.50	1	06/05/2018 12:33
4-Chloro-3-methylphenol	ND	0.25	1	06/05/2018 12:33
2-Chloronaphthalene	ND	0.25	1	06/05/2018 12:33
2-Chlorophenol	ND	0.25	1	06/05/2018 12:33
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/05/2018 12:33
Chrysene	ND	0.25	1	06/05/2018 12:33
Dibenzo (a,h) anthracene	ND	0.25	1	06/05/2018 12:33
Dibenzofuran	ND	0.25	1	06/05/2018 12:33
Di-n-butyl Phthalate	ND	0.25	1	06/05/2018 12:33
1,2-Dichlorobenzene	ND	0.25	1	06/05/2018 12:33
1,3-Dichlorobenzene	ND	0.25	1	06/05/2018 12:33
1,4-Dichlorobenzene	ND	0.25	1	06/05/2018 12:33
3,3-Dichlorobenzidine	ND	0.50	1	06/05/2018 12:33
2,4-Dichlorophenol	ND	0.25	1	06/05/2018 12:33
Diethyl Phthalate	ND	0.25	1	06/05/2018 12:33
2,4-Dimethylphenol	ND	0.25	1	06/05/2018 12:33
Dimethyl Phthalate	ND	0.25	1	06/05/2018 12:33
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/05/2018 12:33

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC17 06051808.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	6.3	1	06/05/2018 12:33	
2,4-Dinitrotoluene	ND	0.25	1	06/05/2018 12:33	
2,6-Dinitrotoluene	ND	0.25	1	06/05/2018 12:33	
Di-n-octyl Phthalate	ND	0.50	1	06/05/2018 12:33	
1,2-Diphenylhydrazine	ND	0.25	1	06/05/2018 12:33	
Fluoranthene	ND	0.25	1	06/05/2018 12:33	
Fluorene	ND	0.25	1	06/05/2018 12:33	
Hexachlorobenzene	ND	0.25	1	06/05/2018 12:33	
Hexachlorobutadiene	ND	0.25	1	06/05/2018 12:33	
Hexachlorocyclopentadiene	ND	1.3	1	06/05/2018 12:33	
Hexachloroethane	ND	0.25	1	06/05/2018 12:33	
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/05/2018 12:33	
Isophorone	ND	0.25	1	06/05/2018 12:33	
2-Methylnaphthalene	ND	0.25	1	06/05/2018 12:33	
2-Methylphenol (o-Cresol)	ND	0.25	1	06/05/2018 12:33	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/05/2018 12:33	
Naphthalene	ND	0.25	1	06/05/2018 12:33	
2-Nitroaniline	ND	1.3	1	06/05/2018 12:33	
3-Nitroaniline	ND	1.3	1	06/05/2018 12:33	
4-Nitroaniline	ND	1.3	1	06/05/2018 12:33	
Nitrobenzene	ND	0.25	1	06/05/2018 12:33	
2-Nitrophenol	ND	1.3	1	06/05/2018 12:33	
4-Nitrophenol	ND	1.3	1	06/05/2018 12:33	
N-Nitrosodiphenylamine	ND	0.25	1	06/05/2018 12:33	
N-Nitrosodi-n-propylamine	ND	0.25	1	06/05/2018 12:33	
Pentachlorophenol	ND	1.3	1	06/05/2018 12:33	
Phenanthrene	ND	0.25	1	06/05/2018 12:33	
Phenol	ND	0.25	1	06/05/2018 12:33	
Pyrene	ND	0.25	1	06/05/2018 12:33	
Pyridine	ND	0.25	1	06/05/2018 12:33	
1,2,4-Trichlorobenzene	ND	0.25	1	06/05/2018 12:33	
2,4,5-Trichlorophenol	ND	0.25	1	06/05/2018 12:33	
2,4,6-Trichlorophenol	ND	0.25	1	06/05/2018 12:33	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC17 06051808.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	114	30-130		06/05/2018 12:33
Phenol-d5	104	30-130		06/05/2018 12:33
Nitrobenzene-d5	105	30-130		06/05/2018 12:33
2-Fluorobiphenyl	102	30-130		06/05/2018 12:33
2,4,6-Tribromophenol	47	16-130		06/05/2018 12:33
4-Terphenyl-d14	110	30-130		06/05/2018 12:33

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC17 06051809.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.50	2	06/05/2018 13:00
Acenaphthylene	ND	0.50	2	06/05/2018 13:00
Acetochlor	ND	0.50	2	06/05/2018 13:00
Anthracene	ND	0.50	2	06/05/2018 13:00
Benzidine	ND	2.6	2	06/05/2018 13:00
Benzo (a) anthracene	ND	0.50	2	06/05/2018 13:00
Benzo (a) pyrene	ND	0.50	2	06/05/2018 13:00
Benzo (b) fluoranthene	ND	0.50	2	06/05/2018 13:00
Benzo (g,h,i) perylene	ND	0.50	2	06/05/2018 13:00
Benzo (k) fluoranthene	ND	0.50	2	06/05/2018 13:00
Benzyl Alcohol	ND	2.6	2	06/05/2018 13:00
1,1-Biphenyl	ND	0.50	2	06/05/2018 13:00
Bis (2-chloroethoxy) Methane	ND	0.50	2	06/05/2018 13:00
Bis (2-chloroethyl) Ether	ND	0.50	2	06/05/2018 13:00
Bis (2-chloroisopropyl) Ether	ND	0.50	2	06/05/2018 13:00
Bis (2-ethylhexyl) Adipate	ND	0.50	2	06/05/2018 13:00
Bis (2-ethylhexyl) Phthalate	ND	0.50	2	06/05/2018 13:00
4-Bromophenyl Phenyl Ether	ND	0.50	2	06/05/2018 13:00
Butylbenzyl Phthalate	ND	0.50	2	06/05/2018 13:00
4-Chloroaniline	ND	1.0	2	06/05/2018 13:00
4-Chloro-3-methylphenol	ND	0.50	2	06/05/2018 13:00
2-Chloronaphthalene	ND	0.50	2	06/05/2018 13:00
2-Chlorophenol	ND	0.50	2	06/05/2018 13:00
4-Chlorophenyl Phenyl Ether	ND	0.50	2	06/05/2018 13:00
Chrysene	ND	0.50	2	06/05/2018 13:00
Dibenzo (a,h) anthracene	ND	0.50	2	06/05/2018 13:00
Dibenzofuran	ND	0.50	2	06/05/2018 13:00
Di-n-butyl Phthalate	ND	0.50	2	06/05/2018 13:00
1,2-Dichlorobenzene	ND	0.50	2	06/05/2018 13:00
1,3-Dichlorobenzene	ND	0.50	2	06/05/2018 13:00
1,4-Dichlorobenzene	ND	0.50	2	06/05/2018 13:00
3,3-Dichlorobenzidine	ND	1.0	2	06/05/2018 13:00
2,4-Dichlorophenol	ND	0.50	2	06/05/2018 13:00
Diethyl Phthalate	ND	0.50	2	06/05/2018 13:00
2,4-Dimethylphenol	ND	0.50	2	06/05/2018 13:00
Dimethyl Phthalate	ND	0.50	2	06/05/2018 13:00
4,6-Dinitro-2-methylphenol	ND	2.6	2	06/05/2018 13:00

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC17 06051809.D	159267

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	13	2	06/05/2018 13:00
2,4-Dinitrotoluene	ND	0.50	2	06/05/2018 13:00
2,6-Dinitrotoluene	ND	0.50	2	06/05/2018 13:00
Di-n-octyl Phthalate	ND	1.0	2	06/05/2018 13:00
1,2-Diphenylhydrazine	ND	0.50	2	06/05/2018 13:00
Fluoranthene	ND	0.50	2	06/05/2018 13:00
Fluorene	ND	0.50	2	06/05/2018 13:00
Hexachlorobenzene	ND	0.50	2	06/05/2018 13:00
Hexachlorobutadiene	ND	0.50	2	06/05/2018 13:00
Hexachlorocyclopentadiene	ND	2.6	2	06/05/2018 13:00
Hexachloroethane	ND	0.50	2	06/05/2018 13:00
Indeno (1,2,3-cd) pyrene	ND	0.50	2	06/05/2018 13:00
Isophorone	ND	0.50	2	06/05/2018 13:00
2-Methylnaphthalene	ND	0.50	2	06/05/2018 13:00
2-Methylphenol (o-Cresol)	ND	0.50	2	06/05/2018 13:00
3 & 4-Methylphenol (m,p-Cresol)	ND	0.50	2	06/05/2018 13:00
Naphthalene	ND	0.50	2	06/05/2018 13:00
2-Nitroaniline	ND	2.6	2	06/05/2018 13:00
3-Nitroaniline	ND	2.6	2	06/05/2018 13:00
4-Nitroaniline	ND	2.6	2	06/05/2018 13:00
Nitrobenzene	ND	0.50	2	06/05/2018 13:00
2-Nitrophenol	ND	2.6	2	06/05/2018 13:00
4-Nitrophenol	ND	2.6	2	06/05/2018 13:00
N-Nitrosodiphenylamine	ND	0.50	2	06/05/2018 13:00
N-Nitrosodi-n-propylamine	ND	0.50	2	06/05/2018 13:00
Pentachlorophenol	ND	2.6	2	06/05/2018 13:00
Phenanthrene	ND	0.50	2	06/05/2018 13:00
Phenol	ND	0.50	2	06/05/2018 13:00
Pyrene	ND	0.50	2	06/05/2018 13:00
Pyridine	ND	0.50	2	06/05/2018 13:00
1,2,4-Trichlorobenzene	ND	0.50	2	06/05/2018 13:00
2,4,5-Trichlorophenol	ND	0.50	2	06/05/2018 13:00
2,4,6-Trichlorophenol	ND	0.50	2	06/05/2018 13:00

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC17 06051809.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	99	30-130		06/05/2018 13:00
Phenol-d5	89	30-130		06/05/2018 13:00
Nitrobenzene-d5	88	30-130		06/05/2018 13:00
2-Fluorobiphenyl	81	30-130		06/05/2018 13:00
2,4,6-Tribromophenol	46	16-130		06/05/2018 13:00
4-Terphenyl-d14	83	30-130		06/05/2018 13:00

Analyst(s): REB

Analytical Comments: a3



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC17 06051810.D	159267

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.25	1	06/05/2018 13:27
Acenaphthylene	ND	0.25	1	06/05/2018 13:27
Acetochlor	ND	0.25	1	06/05/2018 13:27
Anthracene	ND	0.25	1	06/05/2018 13:27
Benzidine	ND	1.3	1	06/05/2018 13:27
Benzo (a) anthracene	ND	0.25	1	06/05/2018 13:27
Benzo (a) pyrene	ND	0.25	1	06/05/2018 13:27
Benzo (b) fluoranthene	ND	0.25	1	06/05/2018 13:27
Benzo (g,h,i) perylene	ND	0.25	1	06/05/2018 13:27
Benzo (k) fluoranthene	ND	0.25	1	06/05/2018 13:27
Benzyl Alcohol	ND	1.3	1	06/05/2018 13:27
1,1-Biphenyl	ND	0.25	1	06/05/2018 13:27
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/05/2018 13:27
Bis (2-chloroethyl) Ether	ND	0.25	1	06/05/2018 13:27
Bis (2-chloroisopropyl) Ether	ND	0.25	1	06/05/2018 13:27
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/05/2018 13:27
Bis (2-ethylhexyl) Phthalate	ND	0.25	1	06/05/2018 13:27
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/05/2018 13:27
Butylbenzyl Phthalate	ND	0.25	1	06/05/2018 13:27
4-Chloroaniline	ND	0.50	1	06/05/2018 13:27
4-Chloro-3-methylphenol	ND	0.25	1	06/05/2018 13:27
2-Chloronaphthalene	ND	0.25	1	06/05/2018 13:27
2-Chlorophenol	ND	0.25	1	06/05/2018 13:27
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/05/2018 13:27
Chrysene	ND	0.25	1	06/05/2018 13:27
Dibenzo (a,h) anthracene	ND	0.25	1	06/05/2018 13:27
Dibenzofuran	ND	0.25	1	06/05/2018 13:27
Di-n-butyl Phthalate	ND	0.25	1	06/05/2018 13:27
1,2-Dichlorobenzene	ND	0.25	1	06/05/2018 13:27
1,3-Dichlorobenzene	ND	0.25	1	06/05/2018 13:27
1,4-Dichlorobenzene	ND	0.25	1	06/05/2018 13:27
3,3-Dichlorobenzidine	ND	0.50	1	06/05/2018 13:27
2,4-Dichlorophenol	ND	0.25	1	06/05/2018 13:27
Diethyl Phthalate	ND	0.25	1	06/05/2018 13:27
2,4-Dimethylphenol	ND	0.25	1	06/05/2018 13:27
Dimethyl Phthalate	ND	0.25	1	06/05/2018 13:27
4,6-Dinitro-2-methylphenol	ND	1.3	1	06/05/2018 13:27

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC17 06051810.D	159267
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	6.3	1	06/05/2018 13:27	
2,4-Dinitrotoluene	ND	0.25	1	06/05/2018 13:27	
2,6-Dinitrotoluene	ND	0.25	1	06/05/2018 13:27	
Di-n-octyl Phthalate	ND	0.50	1	06/05/2018 13:27	
1,2-Diphenylhydrazine	ND	0.25	1	06/05/2018 13:27	
Fluoranthene	ND	0.25	1	06/05/2018 13:27	
Fluorene	ND	0.25	1	06/05/2018 13:27	
Hexachlorobenzene	ND	0.25	1	06/05/2018 13:27	
Hexachlorobutadiene	ND	0.25	1	06/05/2018 13:27	
Hexachlorocyclopentadiene	ND	1.3	1	06/05/2018 13:27	
Hexachloroethane	ND	0.25	1	06/05/2018 13:27	
Indeno (1,2,3-cd) pyrene	ND	0.25	1	06/05/2018 13:27	
Isophorone	ND	0.25	1	06/05/2018 13:27	
2-Methylnaphthalene	ND	0.25	1	06/05/2018 13:27	
2-Methylphenol (o-Cresol)	ND	0.25	1	06/05/2018 13:27	
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/05/2018 13:27	
Naphthalene	ND	0.25	1	06/05/2018 13:27	
2-Nitroaniline	ND	1.3	1	06/05/2018 13:27	
3-Nitroaniline	ND	1.3	1	06/05/2018 13:27	
4-Nitroaniline	ND	1.3	1	06/05/2018 13:27	
Nitrobenzene	ND	0.25	1	06/05/2018 13:27	
2-Nitrophenol	ND	1.3	1	06/05/2018 13:27	
4-Nitrophenol	ND	1.3	1	06/05/2018 13:27	
N-Nitrosodiphenylamine	ND	0.25	1	06/05/2018 13:27	
N-Nitrosodi-n-propylamine	ND	0.25	1	06/05/2018 13:27	
Pentachlorophenol	ND	1.3	1	06/05/2018 13:27	
Phenanthrene	ND	0.25	1	06/05/2018 13:27	
Phenol	ND	0.25	1	06/05/2018 13:27	
Pyrene	ND	0.25	1	06/05/2018 13:27	
Pyridine	ND	0.25	1	06/05/2018 13:27	
1,2,4-Trichlorobenzene	ND	0.25	1	06/05/2018 13:27	
2,4,5-Trichlorophenol	ND	0.25	1	06/05/2018 13:27	
2,4,6-Trichlorophenol	ND	0.25	1	06/05/2018 13:27	

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 6/4/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC17 06051810.D	159267

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	117	30-130		06/05/2018 13:27
Phenol-d5	105	30-130		06/05/2018 13:27
Nitrobenzene-d5	105	30-130		06/05/2018 13:27
2-Fluorobiphenyl	100	30-130		06/05/2018 13:27
2,4,6-Tribromophenol	57	16-130		06/05/2018 13:27
4-Terphenyl-d14	105	30-130		06/05/2018 13:27

Analyst(s): REB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	ICP-MS1 100SMPL.D	159168

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/04/2018 19:12
Arsenic	5.4	0.50	1	06/04/2018 19:12
Barium	140	5.0	1	06/04/2018 19:12
Beryllium	ND	0.50	1	06/04/2018 19:12
Cadmium	ND	0.25	1	06/04/2018 19:12
Chromium	44	0.50	1	06/04/2018 19:12
Cobalt	9.2	0.50	1	06/04/2018 19:12
Copper	30	0.50	1	06/04/2018 19:12
Lead	11	0.50	1	06/04/2018 19:12
Mercury	ND	0.050	1	06/04/2018 19:12
Molybdenum	ND	0.50	1	06/04/2018 19:12
Nickel	42	0.50	1	06/04/2018 19:12
Selenium	ND	0.50	1	06/04/2018 19:12
Silver	ND	0.50	1	06/04/2018 19:12
Thallium	ND	0.50	1	06/04/2018 19:12
Vanadium	39	0.50	1	06/04/2018 19:12
Zinc	46	5.0	1	06/04/2018 19:12

Surrogates	REC (%)	Limits	
Terbium	101	70-130	06/04/2018 19:12

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	ICP-MS1 101SMPL.D	159168

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	0.50	0.50	1	06/04/2018 19:18
Arsenic	6.0	0.50	1	06/04/2018 19:18
Barium	200	5.0	1	06/04/2018 19:18
Beryllium	0.53	0.50	1	06/04/2018 19:18
Cadmium	ND	0.25	1	06/04/2018 19:18
Chromium	43	0.50	1	06/04/2018 19:18
Cobalt	8.8	0.50	1	06/04/2018 19:18
Copper	22	0.50	1	06/04/2018 19:18
Lead	11	0.50	1	06/04/2018 19:18
Mercury	ND	0.050	1	06/04/2018 19:18
Molybdenum	ND	0.50	1	06/04/2018 19:18
Nickel	46	0.50	1	06/04/2018 19:18
Selenium	ND	0.50	1	06/04/2018 19:18
Silver	ND	0.50	1	06/04/2018 19:18
Thallium	ND	0.50	1	06/04/2018 19:18
Vanadium	37	0.50	1	06/04/2018 19:18
Zinc	52	5.0	1	06/04/2018 19:18

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	103	70-130	06/04/2018 19:18

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	ICP-MS1 102SMPL.D	159168

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.52	0.50	1	06/04/2018 19:24
Arsenic	6.2	0.50	1	06/04/2018 19:24
Barium	210	5.0	1	06/04/2018 19:24
Beryllium	0.60	0.50	1	06/04/2018 19:24
Cadmium	ND	0.25	1	06/04/2018 19:24
Chromium	61	0.50	1	06/04/2018 19:24
Cobalt	11	0.50	1	06/04/2018 19:24
Copper	22	0.50	1	06/04/2018 19:24
Lead	10	0.50	1	06/04/2018 19:24
Mercury	ND	0.050	1	06/04/2018 19:24
Molybdenum	0.50	0.50	1	06/04/2018 19:24
Nickel	54	0.50	1	06/04/2018 19:24
Selenium	ND	0.50	1	06/04/2018 19:24
Silver	ND	0.50	1	06/04/2018 19:24
Thallium	ND	0.50	1	06/04/2018 19:24
Vanadium	41	0.50	1	06/04/2018 19:24
Zinc	50	5.0	1	06/04/2018 19:24

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	100	70-130	06/04/2018 19:24

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	ICP-MS1 029SMPL.D	159168

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND	0.50	1	06/05/2018 11:06
Arsenic	6.6	0.50	1	06/05/2018 11:06
Barium	190	5.0	1	06/05/2018 11:06
Beryllium	0.51	0.50	1	06/05/2018 11:06
Cadmium	ND	0.25	1	06/05/2018 11:06
Chromium	45	0.50	1	06/05/2018 11:06
Cobalt	9.6	0.50	1	06/05/2018 11:06
Copper	26	0.50	1	06/05/2018 11:06
Lead	10	0.50	1	06/05/2018 11:06
Mercury	ND	0.050	1	06/05/2018 11:06
Molybdenum	ND	0.50	1	06/05/2018 11:06
Nickel	48	0.50	1	06/05/2018 11:06
Selenium	ND	0.50	1	06/05/2018 11:06
Silver	ND	0.50	1	06/05/2018 11:06
Thallium	ND	0.50	1	06/05/2018 11:06
Vanadium	43	0.50	1	06/05/2018 11:06
Zinc	52	5.0	1	06/05/2018 11:06

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
Terbium	96	70-130	06/05/2018 11:06

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	ICP-MS1 030SMPL.D	159168

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/05/2018 11:12
Arsenic	4.8	0.50	1	06/05/2018 11:12
Barium	140	5.0	1	06/05/2018 11:12
Beryllium	ND	0.50	1	06/05/2018 11:12
Cadmium	ND	0.25	1	06/05/2018 11:12
Chromium	43	0.50	1	06/05/2018 11:12
Cobalt	8.7	0.50	1	06/05/2018 11:12
Copper	24	0.50	1	06/05/2018 11:12
Lead	9.2	0.50	1	06/05/2018 11:12
Mercury	ND	0.050	1	06/05/2018 11:12
Molybdenum	ND	0.50	1	06/05/2018 11:12
Nickel	38	0.50	1	06/05/2018 11:12
Selenium	ND	0.50	1	06/05/2018 11:12
Silver	ND	0.50	1	06/05/2018 11:12
Thallium	ND	0.50	1	06/05/2018 11:12
Vanadium	46	0.50	1	06/05/2018 11:12
Zinc	47	5.0	1	06/05/2018 11:12

Surrogates	REC (%)	Limits	
Terbium	93	70-130	06/05/2018 11:12

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	ICP-MS1 031SMPL.D	159168

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.51	0.50	1	06/05/2018 11:18
Arsenic	6.6	0.50	1	06/05/2018 11:18
Barium	220	5.0	1	06/05/2018 11:18
Beryllium	0.60	0.50	1	06/05/2018 11:18
Cadmium	ND	0.25	1	06/05/2018 11:18
Chromium	50	0.50	1	06/05/2018 11:18
Cobalt	11	0.50	1	06/05/2018 11:18
Copper	24	0.50	1	06/05/2018 11:18
Lead	13	0.50	1	06/05/2018 11:18
Mercury	ND	0.050	1	06/05/2018 11:18
Molybdenum	ND	0.50	1	06/05/2018 11:18
Nickel	57	0.50	1	06/05/2018 11:18
Selenium	ND	0.50	1	06/05/2018 11:18
Silver	ND	0.50	1	06/05/2018 11:18
Thallium	ND	0.50	1	06/05/2018 11:18
Vanadium	43	0.50	1	06/05/2018 11:18
Zinc	60	5.0	1	06/05/2018 11:18

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	92	70-130	06/05/2018 11:18

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	ICP-MS1 032SMPL.D	159168

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/05/2018 11:24
Arsenic	5.9	0.50	1	06/05/2018 11:24
Barium	190	5.0	1	06/05/2018 11:24
Beryllium	0.52	0.50	1	06/05/2018 11:24
Cadmium	ND	0.25	1	06/05/2018 11:24
Chromium	43	0.50	1	06/05/2018 11:24
Cobalt	9.5	0.50	1	06/05/2018 11:24
Copper	20	0.50	1	06/05/2018 11:24
Lead	7.9	0.50	1	06/05/2018 11:24
Mercury	ND	0.050	1	06/05/2018 11:24
Molybdenum	ND	0.50	1	06/05/2018 11:24
Nickel	46	0.50	1	06/05/2018 11:24
Selenium	ND	0.50	1	06/05/2018 11:24
Silver	ND	0.50	1	06/05/2018 11:24
Thallium	ND	0.50	1	06/05/2018 11:24
Vanadium	38	0.50	1	06/05/2018 11:24
Zinc	45	5.0	1	06/05/2018 11:24

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	94	70-130	06/05/2018 11:24

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	ICP-MS1 033SMPL.D	159168

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND	0.50	1	06/05/2018 11:30
Arsenic	6.3	0.50	1	06/05/2018 11:30
Barium	190	5.0	1	06/05/2018 11:30
Beryllium	0.53	0.50	1	06/05/2018 11:30
Cadmium	ND	0.25	1	06/05/2018 11:30
Chromium	45	0.50	1	06/05/2018 11:30
Cobalt	8.7	0.50	1	06/05/2018 11:30
Copper	23	0.50	1	06/05/2018 11:30
Lead	11	0.50	1	06/05/2018 11:30
Mercury	ND	0.050	1	06/05/2018 11:30
Molybdenum	ND	0.50	1	06/05/2018 11:30
Nickel	47	0.50	1	06/05/2018 11:30
Selenium	ND	0.50	1	06/05/2018 11:30
Silver	ND	0.50	1	06/05/2018 11:30
Thallium	ND	0.50	1	06/05/2018 11:30
Vanadium	40	0.50	1	06/05/2018 11:30
Zinc	51	5.0	1	06/05/2018 11:30

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
Terbium	89	70-130	06/05/2018 11:30

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	ICP-MS1 085SMPL.D	159168

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.57	0.50	1	06/04/2018 17:40
Arsenic	7.8	0.50	1	06/04/2018 17:40
Barium	220	5.0	1	06/04/2018 17:40
Beryllium	0.61	0.50	1	06/04/2018 17:40
Cadmium	ND	0.25	1	06/04/2018 17:40
Chromium	47	0.50	1	06/04/2018 17:40
Cobalt	14	0.50	1	06/04/2018 17:40
Copper	27	0.50	1	06/04/2018 17:40
Lead	14	0.50	1	06/04/2018 17:40
Mercury	0.076	0.050	1	06/04/2018 17:40
Molybdenum	ND	0.50	1	06/04/2018 17:40
Nickel	56	0.50	1	06/04/2018 17:40
Selenium	ND	0.50	1	06/04/2018 17:40
Silver	ND	0.50	1	06/04/2018 17:40
Thallium	ND	0.50	1	06/04/2018 17:40
Vanadium	51	0.50	1	06/04/2018 17:40
Zinc	59	5.0	1	06/04/2018 17:40

Surrogates	REC (%)	Limits	
Terbium	102	70-130	06/04/2018 17:40

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	ICP-MS1 146SMPL.D	159176

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/01/2018 22:55
Arsenic	5.9	0.50	1	06/01/2018 22:55
Barium	170	5.0	1	06/01/2018 22:55
Beryllium	0.52	0.50	1	06/01/2018 22:55
Cadmium	ND	0.25	1	06/01/2018 22:55
Chromium	41	0.50	1	06/01/2018 22:55
Cobalt	8.3	0.50	1	06/01/2018 22:55
Copper	19	0.50	1	06/01/2018 22:55
Lead	11	0.50	1	06/01/2018 22:55
Mercury	0.089	0.050	1	06/01/2018 22:55
Molybdenum	ND	0.50	1	06/01/2018 22:55
Nickel	42	0.50	1	06/01/2018 22:55
Selenium	ND	0.50	1	06/01/2018 22:55
Silver	ND	0.50	1	06/01/2018 22:55
Thallium	ND	0.50	1	06/01/2018 22:55
Vanadium	36	0.50	1	06/01/2018 22:55
Zinc	47	5.0	1	06/01/2018 22:55

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	98	70-130	06/01/2018 22:55

Analyst(s): DB



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	ICP-MS1 034SMPL.D	159176

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND	0.50	1	06/05/2018 11:37
Arsenic	5.9	0.50	1	06/05/2018 11:37
Barium	210	5.0	1	06/05/2018 11:37
Beryllium	0.52	0.50	1	06/05/2018 11:37
Cadmium	ND	0.25	1	06/05/2018 11:37
Chromium	45	0.50	1	06/05/2018 11:37
Cobalt	9.3	0.50	1	06/05/2018 11:37
Copper	23	0.50	1	06/05/2018 11:37
Lead	15	0.50	1	06/05/2018 11:37
Mercury	ND	0.050	1	06/05/2018 11:37
Molybdenum	ND	0.50	1	06/05/2018 11:37
Nickel	48	0.50	1	06/05/2018 11:37
Selenium	ND	0.50	1	06/05/2018 11:37
Silver	ND	0.50	1	06/05/2018 11:37
Thallium	ND	0.50	1	06/05/2018 11:37
Vanadium	39	0.50	1	06/05/2018 11:37
Zinc	56	5.0	1	06/05/2018 11:37

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	<u>Date Analyzed</u>
Terbium	104	70-130	06/05/2018 11:37

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	ICP-MS1 035SMPL.D	159176

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	06/05/2018 11:43
Arsenic	6.4	0.50	1	06/05/2018 11:43
Barium	190	5.0	1	06/05/2018 11:43
Beryllium	0.53	0.50	1	06/05/2018 11:43
Cadmium	ND	0.25	1	06/05/2018 11:43
Chromium	44	0.50	1	06/05/2018 11:43
Cobalt	9.7	0.50	1	06/05/2018 11:43
Copper	23	0.50	1	06/05/2018 11:43
Lead	12	0.50	1	06/05/2018 11:43
Mercury	ND	0.050	1	06/05/2018 11:43
Molybdenum	ND	0.50	1	06/05/2018 11:43
Nickel	49	0.50	1	06/05/2018 11:43
Selenium	ND	0.50	1	06/05/2018 11:43
Silver	ND	0.50	1	06/05/2018 11:43
Thallium	ND	0.50	1	06/05/2018 11:43
Vanadium	39	0.50	1	06/05/2018 11:43
Zinc	55	5.0	1	06/05/2018 11:43

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	100	70-130	06/05/2018 11:43

Analyst(s): ND



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(32,33,34,35) 1-1.5	1805H38-001A	Soil	05/30/2018 09:00	GC9a 06041810.D	159114
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	06/04/2018 12:10
TPH-Motor Oil (C18-C36)	ND		5.0	1	06/04/2018 12:10
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	86		74-123		06/04/2018 12:10
<u>Analyst(s):</u> JIS					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(36,37,38,39) 1-1.5	1805H38-002A	Soil	05/30/2018 09:25	GC9a 06041812.D	159114
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	06/04/2018 12:48
TPH-Motor Oil (C18-C36)	ND		5.0	1	06/04/2018 12:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	87		74-123		06/04/2018 12:48
<u>Analyst(s):</u> JIS					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(40,41,42,43) 1-1.5	1805H38-003A	Soil	05/30/2018 10:05	GC39B 06011873.D	159114
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	06/02/2018 11:51
TPH-Motor Oil (C18-C36)	ND		5.0	1	06/02/2018 11:51
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	90		74-123		06/02/2018 11:51
<u>Analyst(s):</u> JIS					

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(44,45,46,47) 1-1.5	1805H38-004A	Soil	05/30/2018 10:44	GC6B 06031831.D	159114

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/03/2018 21:02
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/03/2018 21:02

Surrogates	REC (%)	Limits	Date Analyzed
C9	87	74-123	06/03/2018 21:02

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(48,49,50,51) 1-1.5	1805H38-005A	Soil	05/30/2018 11:17	GC6B 06031833.D	159114

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/03/2018 21:41
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/03/2018 21:41

Surrogates	REC (%)	Limits	Date Analyzed
C9	88	74-123	06/03/2018 21:41

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(52,53,54,55) 1-1.5	1805H38-006A	Soil	05/30/2018 11:44	GC6B 06031835.D	159114

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/03/2018 22:20
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/03/2018 22:20

Surrogates	REC (%)	Limits	Date Analyzed
C9	87	74-123	06/03/2018 22:20

Analyst(s): JIS

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(56,57,58,59) 1-1.5	1805H38-007A	Soil	05/30/2018 12:40	GC9a 06031828.D	159114

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/03/2018 21:50
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/03/2018 21:50

Surrogates	REC (%)	Limits	Date Analyzed
C9	83	74-123	06/03/2018 21:50

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(60,61,62,63) 1-1.5	1805H38-008A	Soil	05/30/2018 12:51	GC9a 06031832.D	159114

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/03/2018 23:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/03/2018 23:08

Surrogates	REC (%)	Limits	Date Analyzed
C9	84	74-123	06/03/2018 23:08

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(64,65,66,67) 1-1.5	1805H38-009A	Soil	05/30/2018 13:06	GC6A 06011850.D	159114

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/02/2018 01:37
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/02/2018 01:37

Surrogates	REC (%)	Limits	Date Analyzed
C9	95	74-123	06/02/2018 01:37

Analyst(s): JIS

(Cont.)



Analytical Report

Client: ERAS Environmental, Inc.
Date Received: 5/31/18 18:00
Date Prepared: 5/31/18
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(68,69,70,71) 1-1.5	1805H38-010A	Soil	05/30/2018 13:22	GC6A 06011852.D	159114
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	06/02/2018 02:16
TPH-Motor Oil (C18-C36)	ND		5.0	1	06/02/2018 02:16
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	90		74-123		06/02/2018 02:16
<u>Analyst(s):</u> JIS					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(72,73,74,75) 1-1.5	1805H38-011A	Soil	05/30/2018 13:35	GC6A 06011856.D	159114
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	06/02/2018 03:34
TPH-Motor Oil (C18-C36)	ND		5.0	1	06/02/2018 03:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	91		74-123		06/02/2018 03:34
<u>Analyst(s):</u> JIS					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
B-(76,77,78,79) 1-1.5	1805H38-012A	Soil	05/30/2018 13:50	GC6A 06011858.D	159114
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	06/02/2018 04:13
TPH-Motor Oil (C18-C36)	ND		5.0	1	06/02/2018 04:13
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	98		74-123		06/02/2018 04:13
<u>Analyst(s):</u> JIS					



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159166
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159166
 1805H36-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	1.05	0.10	1	-	105	48-156
tert-Amyl methyl ether (TAME)	ND	0.0411	0.0050	0.050	-	82	56-115
Benzene	ND	0.0449	0.0050	0.050	-	90	63-131
Bromobenzene	ND	0.0426	0.0050	0.050	-	85	66-127
Bromochloromethane	ND	0.0476	0.0050	0.050	-	95	64-124
Bromodichloromethane	ND	0.0439	0.0050	0.050	-	88	64-120
Bromoform	ND	0.0388	0.0050	0.050	-	77	48-92
Bromomethane	ND	0.0211	0.0050	0.050	-	42	25-163
2-Butanone (MEK)	ND	0.194	0.020	0.20	-	97	51-133
t-Butyl alcohol (TBA)	ND	0.173	0.050	0.20	-	86	52-129
n-Butyl benzene	ND	0.0650	0.0050	0.050	-	130	83-200
sec-Butyl benzene	ND	0.0483	0.0050	0.050	-	97	81-199
tert-Butyl benzene	ND	0.0455	0.0050	0.050	-	91	79-178
Carbon Disulfide	ND	0.0454	0.0050	0.050	-	91	64-136
Carbon Tetrachloride	ND	0.0478	0.0050	0.050	-	96	66-140
Chlorobenzene	ND	0.0456	0.0050	0.050	-	91	73-116
Chloroethane	ND	0.0451	0.0050	0.050	-	90	35-147
Chloroform	ND	0.0464	0.0050	0.050	-	93	65-130
Chloromethane	ND	0.0298	0.0050	0.050	-	60	30-137
2-Chlorotoluene	ND	0.0471	0.0050	0.050	-	94	75-152
4-Chlorotoluene	ND	0.0462	0.0050	0.050	-	93	71-148
Dibromochloromethane	ND	0.0441	0.0050	0.050	-	88	61-106
1,2-Dibromo-3-chloropropane	ND	0.0119	0.0040	0.020	-	60	36-120
1,2-Dibromoethane (EDB)	ND	0.0438	0.0040	0.050	-	88	67-118
Dibromomethane	ND	0.0435	0.0050	0.050	-	87	61-116
1,2-Dichlorobenzene	ND	0.0398	0.0050	0.050	-	80	59-106
1,3-Dichlorobenzene	ND	0.0476	0.0050	0.050	-	95	75-129
1,4-Dichlorobenzene	ND	0.0451	0.0050	0.050	-	90	66-127
Dichlorodifluoromethane	ND	0.0226	0.0050	0.050	-	45	13-74
1,1-Dichloroethane	ND	0.0466	0.0050	0.050	-	93	65-134
1,2-Dichloroethane (1,2-DCA)	ND	0.0492	0.0040	0.050	-	98	57-131
1,1-Dichloroethene	ND	0.0457	0.0050	0.050	-	91	62-127
cis-1,2-Dichloroethene	ND	0.0453	0.0050	0.050	-	91	66-130
trans-1,2-Dichloroethene	ND	0.0478	0.0050	0.050	-	96	60-131
1,2-Dichloropropane	ND	0.0448	0.0050	0.050	-	90	63-127
1,3-Dichloropropane	ND	0.0450	0.0050	0.050	-	90	68-124
2,2-Dichloropropane	ND	0.0494	0.0050	0.050	-	99	63-150

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159166
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159166
 1805H36-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0466	0.0050	0.050	-	93	67-134
cis-1,3-Dichloropropene	ND	0.0486	0.0050	0.050	-	97	65-138
trans-1,3-Dichloropropene	ND	0.0483	0.0050	0.050	-	97	66-124
Diisopropyl ether (DIPE)	ND	0.0443	0.0050	0.050	-	89	58-129
Ethylbenzene	ND	0.0457	0.0050	0.050	-	91	73-145
Ethyl tert-butyl ether (ETBE)	ND	0.0448	0.0050	0.050	-	90	62-125
Freon 113	ND	0.0417	0.0050	0.050	-	83	55-116
Hexachlorobutadiene	ND	0.0468	0.0050	0.050	-	94	75-178
Hexachloroethane	ND	0.0540	0.0050	0.050	-	108	75-152
2-Hexanone	ND	0.0351	0.0050	0.050	-	70	41-113
Isopropylbenzene	ND	0.0442	0.0050	0.050	-	88	67-172
4-Isopropyl toluene	ND	0.0546	0.0050	0.050	-	109	88-171
Methyl-t-butyl ether (MTBE)	ND	0.0446	0.0050	0.050	-	89	58-122
Methylene chloride	0.00562	0.0533	0.0050	0.050	-	107	57-140
4-Methyl-2-pentanone (MIBK)	ND	0.0368	0.0050	0.050	-	74	42-117
Naphthalene	ND	0.0191	0.0050	0.050	-	38	29-65
n-Propyl benzene	ND	0.0460	0.0050	0.050	-	92	85-174
Styrene	ND	0.0399	0.0050	0.050	-	80	63-126
1,1,1,2-Tetrachloroethane	ND	0.0478	0.0050	0.050	-	95	68-131
1,1,2,2-Tetrachloroethane	ND	0.0396	0.0050	0.050	-	79	45-121
Tetrachloroethene	ND	0.0503	0.0050	0.050	-	101	65-150
Toluene	ND	0.0491	0.0050	0.050	-	98	72-135
1,2,3-Trichlorobenzene	ND	0.0277	0.0050	0.050	-	55	35-80
1,2,4-Trichlorobenzene	ND	0.0362	0.0050	0.050	-	72	45-103
1,1,1-Trichloroethane	ND	0.0472	0.0050	0.050	-	95	67-137
1,1,2-Trichloroethane	ND	0.0409	0.0050	0.050	-	82	67-117
Trichloroethene	ND	0.0469	0.0050	0.050	-	94	62-135
Trichlorofluoromethane	ND	0.0444	0.0050	0.050	-	89	56-124
1,2,3-Trichloropropane	ND	0.0429	0.0050	0.050	-	86	58-133
1,2,4-Trimethylbenzene	ND	0.0551	0.0050	0.050	-	110	78-161
1,3,5-Trimethylbenzene	ND	0.0551	0.0050	0.050	-	110	85-170
Vinyl Chloride	ND	0.0374	0.0050	0.050	-	75	32-142
Xylenes, Total	ND	0.128	0.0050	0.15	-	85	70-137

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159166
Date Analyzed: 6/1/18	Extraction Method: SW5030B
Instrument: GC16	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS-159166 1805H36-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.145	0.154		0.12	116	123	87-127
Toluene-d8	0.151	0.153		0.12	121	122	93-141
4-BFB	0.0148	0.0134		0.012	119	107	84-137
Benzene-d6	0.0872	0.0951		0.10	87	95	67-131
Ethylbenzene-d10	0.102	0.105		0.10	102	105	78-153
1,2-DCB-d4	0.0772	0.0921		0.10	77	92	63-109



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159166
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159166
 1805H36-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	NR	NR		ND<10	NR	NR	-	NR	-
tert-Amyl methyl ether (TAME)	NR	NR		ND<0.5	NR	NR	-	NR	-
Benzene	NR	NR		ND<0.5	NR	NR	-	NR	-
Bromobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
Bromochloromethane	NR	NR		ND<0.5	NR	NR	-	NR	-
Bromodichloromethane	NR	NR		ND<0.5	NR	NR	-	NR	-
Bromoform	NR	NR		ND<0.5	NR	NR	-	NR	-
Bromomethane	NR	NR		ND<0.5	NR	NR	-	NR	-
2-Butanone (MEK)	NR	NR		ND<2	NR	NR	-	NR	-
t-Butyl alcohol (TBA)	NR	NR		ND<5	NR	NR	-	NR	-
n-Butyl benzene	NR	NR		5.6	NR	NR	-	NR	-
sec-Butyl benzene	NR	NR		6.9	NR	NR	-	NR	-
tert-Butyl benzene	NR	NR		ND<0.5	NR	NR	-	NR	-
Carbon Disulfide	NR	NR		ND<0.5	NR	NR	-	NR	-
Carbon Tetrachloride	NR	NR		ND<0.5	NR	NR	-	NR	-
Chlorobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
Chloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
Chloroform	NR	NR		ND<0.5	NR	NR	-	NR	-
Chloromethane	NR	NR		ND<0.5	NR	NR	-	NR	-
2-Chlorotoluene	NR	NR		ND<0.5	NR	NR	-	NR	-
4-Chlorotoluene	NR	NR		ND<0.5	NR	NR	-	NR	-
Dibromochloromethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2-Dibromo-3-chloropropane	NR	NR		ND<0.4	NR	NR	-	NR	-
1,2-Dibromoethane (EDB)	NR	NR		ND<0.4	NR	NR	-	NR	-
Dibromomethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2-Dichlorobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,3-Dichlorobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,4-Dichlorobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
Dichlorodifluoromethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,1-Dichloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2-Dichloroethane (1,2-DCA)	NR	NR		ND<0.4	NR	NR	-	NR	-
1,1-Dichloroethene	NR	NR		ND<0.5	NR	NR	-	NR	-
cis-1,2-Dichloroethene	NR	NR		ND<0.5	NR	NR	-	NR	-
trans-1,2-Dichloroethene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2-Dichloropropane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,3-Dichloropropane	NR	NR		ND<0.5	NR	NR	-	NR	-
2,2-Dichloropropane	NR	NR		ND<0.5	NR	NR	-	NR	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: GC16
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159166
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159166
 1805H36-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	NR	NR		ND<0.5	NR	NR	-	NR	-
cis-1,3-Dichloropropene	NR	NR		ND<0.5	NR	NR	-	NR	-
trans-1,3-Dichloropropene	NR	NR		ND<0.5	NR	NR	-	NR	-
Diisopropyl ether (DIPE)	NR	NR		ND<0.5	NR	NR	-	NR	-
Ethylbenzene	NR	NR		0.74	NR	NR	-	NR	-
Ethyl tert-butyl ether (ETBE)	NR	NR		ND<0.5	NR	NR	-	NR	-
Freon 113	NR	NR		ND<0.5	NR	NR	-	NR	-
Hexachlorobutadiene	NR	NR		ND<0.5	NR	NR	-	NR	-
Hexachloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
2-Hexanone	NR	NR		ND<0.5	NR	NR	-	NR	-
Isopropylbenzene	NR	NR		1.7	NR	NR	-	NR	-
4-Isopropyl toluene	NR	NR		1.2	NR	NR	-	NR	-
Methyl-t-butyl ether (MTBE)	NR	NR		ND<0.5	NR	NR	-	NR	-
Methylene chloride	NR	NR		ND	NR	NR	-	NR	-
4-Methyl-2-pentanone (MIBK)	NR	NR		ND<0.5	NR	NR	-	NR	-
Naphthalene	NR	NR		2.3	NR	NR	-	NR	-
n-Propyl benzene	NR	NR		4.6	NR	NR	-	NR	-
Styrene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,1,1,2-Tetrachloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,1,2,2-Tetrachloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
Tetrachloroethene	NR	NR		ND<0.5	NR	NR	-	NR	-
Toluene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2,3-Trichlorobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2,4-Trichlorobenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
1,1,1-Trichloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,1,2-Trichloroethane	NR	NR		ND<0.5	NR	NR	-	NR	-
Trichloroethene	NR	NR		ND<0.5	NR	NR	-	NR	-
Trichlorofluoromethane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2,3-Trichloropropane	NR	NR		ND<0.5	NR	NR	-	NR	-
1,2,4-Trimethylbenzene	NR	NR		1.2	NR	NR	-	NR	-
1,3,5-Trimethylbenzene	NR	NR		ND<0.5	NR	NR	-	NR	-
Vinyl Chloride	NR	NR		ND<0.5	NR	NR	-	NR	-
Xylenes, Total	NR	NR		ND<0.5	NR	NR	-	NR	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159166
Date Analyzed: 6/1/18	Extraction Method: SW5030B
Instrument: GC16	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS-159166 1805H36-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	NR	NR			NR	NR	-	NR	-
Toluene-d8	NR	NR			NR	NR	-	NR	-
4-BFB	NR	NR			NR	NR	-	NR	-
Benzene-d6	NR	NR			NR	NR	-	NR	-
Ethylbenzene-d10	NR	NR			NR	NR	-	NR	-
1,2-DCB-d4	NR	NR			NR	NR	-	NR	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/2/18 - 6/6/18
Instrument: GC10, GC18
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159173
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159173
 1805H38-012AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	1.61	0.10	1	-	161, F2	48-156
tert-Amyl methyl ether (TAME)	ND	0.0387	0.0050	0.050	-	77	56-115
Benzene	ND	0.0458	0.0050	0.050	-	92	63-131
Bromobenzene	ND	0.0442	0.0050	0.050	-	88	66-127
Bromochloromethane	ND	0.0433	0.0050	0.050	-	87	64-124
Bromodichloromethane	ND	0.0385	0.0050	0.050	-	77	64-120
Bromoform	ND	0.0306	0.0050	0.050	-	61	48-92
Bromomethane	ND	0.0524	0.0050	0.050	-	105	25-163
2-Butanone (MEK)	ND	0.186	0.020	0.20	-	93	51-133
t-Butyl alcohol (TBA)	ND	0.195	0.050	0.20	-	98	52-129
n-Butyl benzene	ND	0.0752	0.0050	0.050	-	150	83-200
sec-Butyl benzene	ND	0.0702	0.0050	0.050	-	140	81-199
tert-Butyl benzene	ND	0.0593	0.0050	0.050	-	119	79-178
Carbon Disulfide	ND	0.0437	0.0050	0.050	-	87	64-136
Carbon Tetrachloride	ND	0.0450	0.0050	0.050	-	90	66-140
Chlorobenzene	ND	0.0449	0.0050	0.050	-	90	73-116
Chloroethane	ND	0.0491	0.0050	0.050	-	98	35-147
Chloroform	ND	0.0444	0.0050	0.050	-	89	65-130
Chloromethane	ND	0.0411	0.0050	0.050	-	82	30-137
2-Chlorotoluene	ND	0.0533	0.0050	0.050	-	107	75-152
4-Chlorotoluene	ND	0.0499	0.0050	0.050	-	100	71-148
Dibromochloromethane	ND	0.0382	0.0050	0.050	-	76	61-106
1,2-Dibromo-3-chloropropane	ND	0.0147	0.0040	0.020	-	73	36-120
1,2-Dibromoethane (EDB)	ND	0.0416	0.0040	0.050	-	83	67-118
Dibromomethane	ND	0.0402	0.0050	0.050	-	80	61-116
1,2-Dichlorobenzene	ND	0.0365	0.0050	0.050	-	73	59-106
1,3-Dichlorobenzene	ND	0.0477	0.0050	0.050	-	95	75-129
1,4-Dichlorobenzene	ND	0.0424	0.0050	0.050	-	85	66-127
Dichlorodifluoromethane	ND	0.0214	0.0050	0.050	-	43	13-74
1,1-Dichloroethane	ND	0.0474	0.0050	0.050	-	95	65-134
1,2-Dichloroethane (1,2-DCA)	ND	0.0443	0.0040	0.050	-	89	57-131
1,1-Dichloroethene	ND	0.0431	0.0050	0.050	-	86	62-127
cis-1,2-Dichloroethene	ND	0.0446	0.0050	0.050	-	89	66-130
trans-1,2-Dichloroethene	ND	0.0450	0.0050	0.050	-	90	60-131
1,2-Dichloropropane	ND	0.0451	0.0050	0.050	-	90	63-127
1,3-Dichloropropane	ND	0.0446	0.0050	0.050	-	89	68-124
2,2-Dichloropropane	ND	0.0481	0.0050	0.050	-	96	63-150

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/2/18 - 6/6/18
Instrument: GC10, GC18
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159173
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159173
 1805H38-012AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	0.0464	0.0050	0.050	-	93	67-134
cis-1,3-Dichloropropene	ND	0.0468	0.0050	0.050	-	94	65-138
trans-1,3-Dichloropropene	ND	0.0449	0.0050	0.050	-	90	66-124
Diisopropyl ether (DIPE)	ND	0.0445	0.0050	0.050	-	89	58-129
Ethylbenzene	ND	0.0500	0.0050	0.050	-	100	73-145
Ethyl tert-butyl ether (ETBE)	ND	0.0436	0.0050	0.050	-	87	62-125
Freon 113	ND	0.0406	0.0050	0.050	-	81	55-116
Hexachlorobutadiene	ND	0.0530	0.0050	0.050	-	106	75-178
Hexachloroethane	ND	0.0593	0.0050	0.050	-	119	75-152
2-Hexanone	ND	0.0402	0.0050	0.050	-	80	41-113
Isopropylbenzene	ND	0.0506	0.0050	0.050	-	101	67-172
4-Isopropyl toluene	ND	0.0661	0.0050	0.050	-	132	88-171
Methyl-t-butyl ether (MTBE)	ND	0.0431	0.0050	0.050	-	86	58-122
Methylene chloride	ND	0.0475	0.0050	0.050	-	95	57-140
4-Methyl-2-pentanone (MIBK)	ND	0.0359	0.0050	0.050	-	72	42-117
Naphthalene	ND	0.0204	0.0050	0.050	-	41	29-65
n-Propyl benzene	ND	0.0624	0.0050	0.050	-	125	85-174
Styrene	ND	0.0364	0.0050	0.050	-	73	63-126
1,1,1,2-Tetrachloroethane	ND	0.0438	0.0050	0.050	-	88	68-131
1,1,2,2-Tetrachloroethane	ND	0.0398	0.0050	0.050	-	80	45-121
Tetrachloroethene	ND	0.0515	0.0050	0.050	-	103	65-150
Toluene	ND	0.0494	0.0050	0.050	-	99	72-135
1,2,3-Trichlorobenzene	ND	0.0240	0.0050	0.050	-	48	35-80
1,2,4-Trichlorobenzene	ND	0.0318	0.0050	0.050	-	64	45-103
1,1,1-Trichloroethane	ND	0.0441	0.0050	0.050	-	88	67-137
1,1,2-Trichloroethane	ND	0.0392	0.0050	0.050	-	78	67-117
Trichloroethene	ND	0.0472	0.0050	0.050	-	94	62-135
Trichlorofluoromethane	ND	0.0410	0.0050	0.050	-	82	56-124
1,2,3-Trichloropropane	ND	0.0436	0.0050	0.050	-	87	58-133
1,2,4-Trimethylbenzene	ND	0.0576	0.0050	0.050	-	115	78-161
1,3,5-Trimethylbenzene	ND	0.0607	0.0050	0.050	-	121	85-170
Vinyl Chloride	ND	0.0430	0.0050	0.050	-	86	32-142
Xylenes, Total	ND	0.131	0.0050	0.15	-	87	70-137

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159173
Date Analyzed: 6/2/18 - 6/6/18	Extraction Method: SW5030B
Instrument: GC10, GC18	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS-159173 1805H38-012AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.139	0.138		0.12	111	110	87-127
Toluene-d8	0.163	0.166		0.12	130	133	93-141
4-BFB	0.0134	0.0138		0.012	107	110	84-137
Benzene-d6	0.0123	0.00764		0.10	12,F3	8, F3	67-131
Ethylbenzene-d10	0.0154	0.00916		0.10	15,F3	9, F3	78-153
1,2-DCB-d4	0.0121	0.00817		0.10	12,F3	8, F3	63-109



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/2/18 - 6/6/18
Instrument: GC10, GC18
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159173
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-159173
 1805H38-012AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.891	0.918	1	ND	89	92	36-141	3.09	20
tert-Amyl methyl ether (TAME)	0.0367	0.0383	0.050	ND	73	77	46-105	4.40	20
Benzene	0.0402	0.0418	0.050	ND	80	84	46-124	3.97	20
Bromobenzene	0.0399	0.0413	0.050	ND	80	83	50-119	3.44	20
Bromochloromethane	0.0414	0.0450	0.050	ND	83	90	42-122	8.39	20
Bromodichloromethane	0.0410	0.0439	0.050	ND	82	88	48-112	7.03	20
Bromoform	0.0301	0.0321	0.050	ND	60	64	36-90	6.48	20
Bromomethane	0.0353	0.0418	0.050	ND	71	83	10-149	16.7	20
2-Butanone (MEK)	0.169	0.227	0.20	ND	78	106	43-114	29,F1	20
t-Butyl alcohol (TBA)	0.186	0.198	0.20	ND	90	96	33-123	6.19	20
n-Butyl benzene	0.0599	0.0605	0.050	ND	120	121	40-185	1.07	20
sec-Butyl benzene	0.0560	0.0574	0.050	ND	112	115	40-183	2.39	20
tert-Butyl benzene	0.0512	0.0532	0.050	ND	102	106	44-168	3.88	20
Carbon Disulfide	0.0397	0.0442	0.050	ND	79	88	23-139	10.7	20
Carbon Tetrachloride	0.0416	0.0460	0.050	ND	83	92	43-133	10.1	20
Chlorobenzene	0.0416	0.0426	0.050	ND	83	85	51-115	2.20	20
Chloroethane	0.0430	0.0465	0.050	ND	86	93	16-138	7.76	20
Chloroform	0.0407	0.0433	0.050	ND	81	87	54-117	6.21	20
Chloromethane	0.0316	0.0328	0.050	ND	63	66	14-128	3.72	20
2-Chlorotoluene	0.0483	0.0492	0.050	ND	97	98	54-141	1.80	20
4-Chlorotoluene	0.0468	0.0477	0.050	ND	94	95	52-134	2.04	20
Dibromochloromethane	0.0389	0.0426	0.050	ND	78	85	46-102	9.28	20
1,2-Dibromo-3-chloropropane	0.0130	0.0135	0.020	ND	65	68	16-120	3.85	20
1,2-Dibromoethane (EDB)	0.0398	0.0421	0.050	ND	80	84	48-113	5.45	20
Dibromomethane	0.0397	0.0424	0.050	ND	79	85	44-110	6.46	20
1,2-Dichlorobenzene	0.0370	0.0370	0.050	ND	74	74	43-106	0	20
1,3-Dichlorobenzene	0.0457	0.0460	0.050	ND	91	92	49-128	0.546	20
1,4-Dichlorobenzene	0.0457	0.0460	0.050	ND	91	92	48-120	0.546	20
Dichlorodifluoromethane	0.0125	0.0134	0.050	ND	25	27	8-63	7.40	20
1,1-Dichloroethane	0.0411	0.0446	0.050	ND	82	89	50-122	8.08	20
1,2-Dichloroethane (1,2-DCA)	0.0402	0.0433	0.050	ND	80	87	46-116	7.55	20
1,1-Dichloroethene	0.0462	0.0511	0.050	ND	92	102	37-124	10.1	20
cis-1,2-Dichloroethene	0.0419	0.0452	0.050	ND	84	90	47-123	7.65	20
trans-1,2-Dichloroethene	0.0421	0.0460	0.050	ND	84	92	31-131	8.90	20
1,2-Dichloropropane	0.0417	0.0439	0.050	ND	83	88	50-116	5.26	20
1,3-Dichloropropane	0.0409	0.0436	0.050	ND	82	87	52-115	6.27	20
2,2-Dichloropropane	0.0416	0.0451	0.050	ND	83	90	43-137	7.92	20

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159173
Date Analyzed: 6/2/18 - 6/6/18	Extraction Method: SW5030B
Instrument: GC10, GC18	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS-159173 1805H38-012AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0418	0.0444	0.050	ND	84	89	43-126	6.08	20
cis-1,3-Dichloropropene	0.0414	0.0460	0.050	ND	83	92	35-134	10.7	20
trans-1,3-Dichloropropene	0.0410	0.0456	0.050	ND	82	91	35-124	10.6	20
Diisopropyl ether (DIPE)	0.0400	0.0419	0.050	ND	80	84	49-116	4.60	20
Ethylbenzene	0.0451	0.0457	0.050	ND	90	91	49-137	1.41	20
Ethyl tert-butyl ether (ETBE)	0.0389	0.0413	0.050	ND	78	83	50-113	6.02	20
Freon 113	0.0322	0.0360	0.050	ND	64	72	28-114	11.1	20
Hexachlorobutadiene	0.0531	0.0545	0.050	ND	106	109	22-180	2.61	20
Hexachloroethane	0.0497	0.0519	0.050	ND	99	104	28-158	4.30	20
2-Hexanone	0.0318	0.0333	0.050	ND	64	67	31-102	4.62	20
Isopropylbenzene	0.0529	0.0550	0.050	ND	106	110	50-153	3.82	20
4-Isopropyl toluene	0.0555	ND	0.050	ND	111	0,F1	41-171	0	20
Methyl-t-butyl ether (MTBE)	0.0420	0.0443	0.050	ND	84	89	48-110	5.45	20
Methylene chloride	0.0399	0.0430	0.050	ND	80	86	42-127	7.33	20
4-Methyl-2-pentanone (MIBK)	0.0307	0.0331	0.050	ND	61	66	24-114	7.73	20
Naphthalene	0.0214	0.0206	0.050	ND	43	41	19-69	3.78	20
n-Propyl benzene	0.0538	0.0554	0.050	ND	108	111	46-168	2.83	20
Styrene	0.0385	0.0387	0.050	ND	77	77	42-122	0	20
1,1,1,2-Tetrachloroethane	0.0413	0.0428	0.050	ND	83	86	52-121	3.52	20
1,1,2,2-Tetrachloroethane	0.0238	0.0365	0.050	ND	48	73	27-116	42,F1	20
Tetrachloroethene	0.0416	0.0427	0.050	ND	83	85	37-149	2.71	20
Toluene	0.0438	0.0453	0.050	ND	88	91	52-124	3.47	20
1,2,3-Trichlorobenzene	0.0262	0.0262	0.050	ND	52	52	20-86	0	20
1,2,4-Trichlorobenzene	0.0336	0.0327	0.050	ND	67	65	24-107	2.63	20
1,1,1-Trichloroethane	0.0428	0.0462	0.050	ND	86	92	48-128	7.69	20
1,1,2-Trichloroethane	0.0409	0.0433	0.050	ND	82	87	51-110	5.78	20
Trichloroethene	0.0522	0.0441	0.050	ND	104	88	42-128	16.9	20
Trichlorofluoromethane	0.0349	0.0396	0.050	ND	70	79	31-121	12.6	20
1,2,3-Trichloropropane	0.0402	0.0429	0.050	ND	80	86	50-115	6.43	20
1,2,4-Trimethylbenzene	0.0504	0.0514	0.050	ND	101	103	48-151	1.99	20
1,3,5-Trimethylbenzene	0.0526	0.0537	0.050	ND	105	107	51-159	1.96	20
Vinyl Chloride	0.0363	0.0380	0.050	ND	73	76	11-136	4.75	20
Xylenes, Total	0.128	0.128	0.15	ND	85	86	38-141	0.452	20

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc. Date Prepared: 5/31/18 Date Analyzed: 6/2/18 - 6/6/18 Instrument: GC10, GC18 Matrix: Soil Project: 17221; 1401 West Winton, Hayward, CA	WorkOrder: 1805H38 BatchID: 159173 Extraction Method: SW5030B Analytical Method: SW8260B Unit: mg/kg Sample ID: MB/LCS-159173 1805H38-012AMS/MSD
---	--

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.141	0.146	0.12		113	117	82-136	3.25	20
Toluene-d8	0.152	0.154	0.12		122	123	92-139	0.904	20
4-BFB	0.0137	0.0136	0.012		110	109	82-135	0.824	20
Benzene-d6	0.0101	0.00989	0.10		10,F3	10,F3	55-122	0	20
Ethylbenzene-d10	0.0103	0.0102	0.10		10,F3	10,F3	58-141	0	20
1,2-DCB-d4	0.0128	0.0124	0.10		13,F3	12,F3	51-107	2.76	20



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159166
Date Analyzed: 6/1/18 - 6/4/18	Extraction Method: SW5030B
Instrument: GC16, GC38	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS/LCSD-159166

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.25	-	-	-
Surrogate Recovery					
Dibromofluoromethane	0.139		0.12	111	70-130
Benzene-D6	0.0841		0.10	84	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	0.902	0.995	1	90	100	67-117	9.89	20
Surrogate Recovery								
Dibromofluoromethane	0.138	0.136	0.12	110	109	87-127	1.20	20
Benzene-D6	0.00959	0.0104	0.10	10, F3	10, F3	67-131	0	20

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159173
Date Analyzed: 6/2/18 - 6/6/18	Extraction Method: SW5030B
Instrument: GC10, GC18	Analytical Method: SW8260B
Matrix: Soil	Unit: mg/kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS/LCSD-159173 1805H38-012AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.25	-	-	-
Surrogate Recovery					
Dibromofluoromethane	0.124		0.12	99	70-130
Benzene-D6	0.0159		0.10	16,F3	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	1.06	1.01	1	106	101	67-117	5.38	20
Surrogate Recovery								
Dibromofluoromethane	0.121	0.120	0.12	97	96	87-127	0.685	20
Benzene-D6	0.0107	0.0110	0.10	11, F3	11, F3	67-131	0	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(g) (C6-C12)	N/A	N/A		N/A	N/A	N/A	-	N/A	-
Surrogate Recovery									
Dibromofluoromethane	N/A	N/A			N/A	N/A	-	N/A	-
Benzene-D6	N/A	N/A			N/A	N/A	-	N/A	-



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1805H38
Date Prepared:	6/4/18	BatchID:	159267
Date Analyzed:	6/4/18	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	17221; 1401 West Winton, Hayward, CA	Sample ID:	MB/LCS/LCSD-159267

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.25	-	-	-
Acenaphthylene	ND	0.25	-	-	-
Acetochlor	ND	0.25	-	-	-
Anthracene	ND	0.25	-	-	-
Benzidine	ND	1.3	-	-	-
Benzo (a) anthracene	ND	0.25	-	-	-
Benzo (a) pyrene	ND	0.25	-	-	-
Benzo (b) fluoranthene	ND	0.25	-	-	-
Benzo (g,h,i) perylene	ND	0.25	-	-	-
Benzo (k) fluoranthene	ND	0.25	-	-	-
Benzyl Alcohol	ND	1.3	-	-	-
1,1-Biphenyl	ND	0.25	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.25	-	-	-
Bis (2-chloroethyl) Ether	ND	0.25	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.25	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.25	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.25	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.25	-	-	-
Butylbenzyl Phthalate	ND	0.25	-	-	-
4-Chloroaniline	ND	0.50	-	-	-
4-Chloro-3-methylphenol	ND	0.25	-	-	-
2-Chloronaphthalene	ND	0.25	-	-	-
2-Chlorophenol	ND	0.25	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.25	-	-	-
Chrysene	ND	0.25	-	-	-
Dibenzo (a,h) anthracene	ND	0.25	-	-	-
Dibenzofuran	ND	0.25	-	-	-
Di-n-butyl Phthalate	ND	0.25	-	-	-
1,2-Dichlorobenzene	ND	0.25	-	-	-
1,3-Dichlorobenzene	ND	0.25	-	-	-
1,4-Dichlorobenzene	ND	0.25	-	-	-
3,3-Dichlorobenzidine	ND	0.50	-	-	-
2,4-Dichlorophenol	ND	0.25	-	-	-
Diethyl Phthalate	ND	0.25	-	-	-
2,4-Dimethylphenol	ND	0.25	-	-	-
Dimethyl Phthalate	ND	0.25	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.3	-	-	-
2,4-Dinitrophenol	ND	6.3	-	-	-
2,4-Dinitrotoluene	ND	0.25	-	-	-

(Cont.)



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1805H38
Date Prepared:	6/4/18	BatchID:	159267
Date Analyzed:	6/4/18	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	17221; 1401 West Winton, Hayward, CA	Sample ID:	MB/LCS/LCSD-159267

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
2,6-Dinitrotoluene	ND	0.25	-	-	-
Di-n-octyl Phthalate	ND	0.50	-	-	-
1,2-Diphenylhydrazine	ND	0.25	-	-	-
Fluoranthene	ND	0.25	-	-	-
Fluorene	ND	0.25	-	-	-
Hexachlorobenzene	ND	0.25	-	-	-
Hexachlorobutadiene	ND	0.25	-	-	-
Hexachlorocyclopentadiene	ND	1.3	-	-	-
Hexachloroethane	ND	0.25	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.25	-	-	-
Isophorone	ND	0.25	-	-	-
2-Methylnaphthalene	ND	0.25	-	-	-
2-Methylphenol (o-Cresol)	ND	0.25	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	-	-	-
Naphthalene	ND	0.25	-	-	-
2-Nitroaniline	ND	1.3	-	-	-
3-Nitroaniline	ND	1.3	-	-	-
4-Nitroaniline	ND	1.3	-	-	-
Nitrobenzene	ND	0.25	-	-	-
2-Nitrophenol	ND	1.3	-	-	-
4-Nitrophenol	ND	1.3	-	-	-
N-Nitrosodiphenylamine	ND	0.25	-	-	-
N-Nitrosodi-n-propylamine	ND	0.25	-	-	-
Pentachlorophenol	ND	1.3	-	-	-
Phenanthrene	ND	0.25	-	-	-
Phenol	ND	0.25	-	-	-
Pyrene	ND	0.25	-	-	-
Pyridine	ND	0.25	-	-	-
1,2,4-Trichlorobenzene	ND	0.25	-	-	-
2,4,5-Trichlorophenol	ND	0.25	-	-	-
2,4,6-Trichlorophenol	ND	0.25	-	-	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 6/4/18	BatchID: 159267
Date Analyzed: 6/4/18	Extraction Method: SW3550B
Instrument: GC17	Analytical Method: SW8270C
Matrix: Soil	Unit: mg/Kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS/LCSD-159267

QC Summary Report for SW8270C

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	5.29		5	106	30-130
Phenol-d5	4.68		5	94	30-130
Nitrobenzene-d5	4.68		5	94	30-130
2-Fluorobiphenyl	4.15		5	83	30-130
2,4,6-Tribromophenol	4.44		5	89	16-130
4-Terphenyl-d14	4.45		5	89	30-130



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1805H38
Date Prepared:	6/4/18	BatchID:	159267
Date Analyzed:	6/4/18	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	17221; 1401 West Winton, Hayward, CA	Sample ID:	MB/LCS/LCSD-159267

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	3.04	3.84	5	61	77	46-118	23.3	30
Acenaphthylene	3.64	4.58	5	73	92	43-122	22.9	30
Anthracene	3.54	4.50	5	71	90	47-125	24.0	30
Benzidine	0.698	0.663	5	14	13	13-83	5.06	30
Benzo (a) anthracene	2.93	3.82	5	59	76	53-117	26.6	30
Benzo (a) pyrene	3.33	4.27	5	67	85	53-138	24.8	30
Benzo (b) fluoranthene	3.05	3.91	5	61	78	48-125	24.7	30
Benzo (g,h,i) perylene	3.53	4.49	5	71	90	51-146	24.0	30
Benzo (k) fluoranthene	3.10	3.99	5	62	80	53-124	25.0	30
Benzyl Alcohol	3.57	3.39	5	71	68	51-105	5.22	30
Bis (2-chloroethoxy) Methane	3.09	3.51	5	62	70	48-115	12.9	30
Bis (2-chloroethyl) Ether	3.06	3.26	5	61	65	51-105	6.34	30
Bis (2-chloroisopropyl) Ether	3.32	3.49	5	66, F2	70, F2	85-119	4.90	30
Bis (2-ethylhexyl) Adipate	2.86	3.50	5	57	70	46-117	20.3	30
Bis (2-ethylhexyl) Phthalate	3.02	3.78	5	60	76	50-124	22.2	30
4-Bromophenyl Phenyl Ether	3.32	4.32	5	66, F2	86	70-112	26.3	30
Butylbenzyl Phthalate	3.09	3.80	5	62	76	55-127	20.6	30
4-Chloroaniline	2.38	2.52	5	48	50	18-77	5.79	30
4-Chloro-3-methylphenol	3.73	4.08	5	75	82	49-123	9.10	30
2-Chloronaphthalene	2.92	3.77	5	58	75	44-109	25.5	30
2-Chlorophenol	3.90	4.07	5	78	81	55-116	4.15	30
4-Chlorophenyl Phenyl Ether	3.73	4.59	5	75	92	45-122	20.7	30
Chrysene	3.20	4.18	5	64	84	54-116	26.4	30
Dibenzo (a,h) anthracene	2.99	3.77	5	60	75	52-141	23.2	30
Dibenzofuran	3.28	4.02	5	66	80	46-117	20.3	30
Di-n-butyl Phthalate	3.02	3.67	5	60	73	45-126	19.4	30
1,2-Dichlorobenzene	3.25	3.77	5	65	75	55-105	14.7	30
1,3-Dichlorobenzene	3.10	3.65	5	62	73	51-104	16.2	30
1,4-Dichlorobenzene	2.89	3.36	5	58	67	50-102	15.1	30
3,3-Dichlorobenzidine	1.63	2.22	5	33	44	20-84	30.5,F2	30
2,4-Dichlorophenol	3.52	4.02	5	70	80	54-124	13.3	30
Diethyl Phthalate	3.62	4.27	5	72	85	42-118	16.6	30
2,4-Dimethylphenol	3.44	3.95	5	69	79	53-120	13.9	30
Dimethyl Phthalate	3.48	4.22	5	70	84	45-118	19.1	30
4,6-Dinitro-2-methylphenol	3.40	4.57	5	68	91	32-126	29.4	30
2,4-Dinitrophenol	3.83	5.50	5	77	110	20-130	35.9,F2	30
2,4-Dinitrotoluene	3.48	4.10	5	70	82	47-117	16.3	30
2,6-Dinitrotoluene	3.58	4.30	5	72	86	48-121	18.4	30
Di-n-octyl Phthalate	3.22	3.98	5	64	80	40-150	21.1	30

(Cont.)



Quality Control Report

Client:	ERAS Environmental, Inc.	WorkOrder:	1805H38
Date Prepared:	6/4/18	BatchID:	159267
Date Analyzed:	6/4/18	Extraction Method:	SW3550B
Instrument:	GC17	Analytical Method:	SW8270C
Matrix:	Soil	Unit:	mg/Kg
Project:	17221; 1401 West Winton, Hayward, CA	Sample ID:	MB/LCS/LCSD-159267

QC Summary Report for SW8270C

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
1,2-Diphenylhydrazine	3.19	4.00	5	64, F2	80, F2	88-117	22.4	30
Fluoranthene	3.85	4.76	5	77	95	45-126	21.1	30
Fluorene	3.48	4.28	5	70	86	43-118	20.5	30
Hexachlorobenzene	2.94	3.69	5	59	74	47-130	22.8	30
Hexachlorobutadiene	3.15	4.09	5	63	82	50-121	25.9	30
Hexachlorocyclopentadiene	2.07	3.17	5	41	63	30-89	42.1,F2	30
Hexachloroethane	2.92	3.44	5	58	69	50-106	16.4	30
Indeno (1,2,3-cd) pyrene	3.10	3.91	5	62	78	51-138	23.1	30
Isophorone	2.51	2.90	5	50	58	38-92	14.6	30
2-Methylnaphthalene	3.56	4.14	5	71	83	51-121	15.1	30
2-Methylphenol (o-Cresol)	3.35	3.22	5	67	64	48-114	3.82	30
3 & 4-Methylphenol (m,p-Cresol)	3.29	3.22	5	66	64	30-130	2.14	30
Naphthalene	3.06	3.73	5	61	75	50-113	19.8	30
2-Nitroaniline	3.17	3.86	5	63	77	45-115	19.5	30
3-Nitroaniline	2.62	2.68	5	52	54	31-93	2.05	30
4-Nitroaniline	3.73	4.12	5	75	82	41-108	9.85	30
Nitrobenzene	3.45	4.24	5	69	85	49-122	20.6	30
2-Nitrophenol	3.81	4.69	5	76	94	54-121	20.7	30
4-Nitrophenol	3.42	3.84	5	68	77	40-102	11.6	30
N-Nitrosodi-n-propylamine	3.38	3.41	5	68	68	47-108	0	30
Pentachlorophenol	3.42	4.39	5	68	88	39-134	24.9	30
Phenanthrene	3.08	3.90	5	62	78	49-123	23.7	30
Phenol	3.85	3.82	5	77	76	49-107	0.804	30
Pyrene	3.15	3.96	5	63	79	55-124	22.6	30
Pyridine	5.63	6.86	5	113	137, F2	70-130	19.6	30
1,2,4-Trichlorobenzene	3.60	4.48	5	72	90	51-121	21.6	30
2,4,5-Trichlorophenol	3.53	4.38	5	71	88	45-126	21.4	30
2,4,6-Trichlorophenol	3.44	4.38	5	69	88	46-128	23.8	30
Surrogate Recovery								
2-Fluorophenol	4.11	4.30	5	82	86	47-125	4.41	30
Phenol-d5	3.92	3.87	5	78	77	45-117	1.39	30
Nitrobenzene-d5	3.83	4.62	5	77	92	39-121	18.7	30
2-Fluorobiphenyl	3.34	4.28	5	67	86	35-120	24.8	30
2,4,6-Tribromophenol	3.63	4.62	5	73	92	32-111	24.0	30
4-Terphenyl-d14	3.34	4.03	5	67	81	32-128	18.9	30



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: ICP-MS1
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159168
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-159168
 1805H42-001AMS/MSD
 1805H42-001APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	48.0	0.50	50	-	96	75-125
Arsenic	ND	46.2	0.50	50	-	92	75-125
Barium	ND	485	5.0	500	-	97	75-125
Beryllium	ND	46.7	0.50	50	-	93	75-125
Cadmium	ND	46.9	0.25	50	-	94	75-125
Chromium	ND	44.6	0.50	50	-	89	75-125
Cobalt	ND	46.0	0.50	50	-	92	75-125
Copper	ND	45.5	0.50	50	-	91	75-125
Lead	ND	44.5	0.50	50	-	89	75-125
Mercury	ND	1.06	0.050	1.25	-	85	75-125
Molybdenum	ND	44.4	0.50	50	-	89	75-125
Nickel	ND	45.2	0.50	50	-	90	75-125
Selenium	ND	47.6	0.50	50	-	95	75-125
Silver	ND	45.0	0.50	50	-	90	75-125
Thallium	ND	42.5	0.50	50	-	85	75-125
Vanadium	ND	43.9	0.50	50	-	88	75-125
Zinc	ND	461	5.0	500	-	92	75-125
Surrogate Recovery							
Terbium	503	497		500	101	99	70-130



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159168
Date Analyzed: 6/1/18	Extraction Method: SW3050B
Instrument: ICP-MS1	Analytical Method: SW6020
Matrix: Soil	Unit: mg/Kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS-159168 1805H42-001AMS/MSD 1805H42-001APDS

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	48.6	47.7	50	ND	97	95	75-125	1.89	20
Arsenic	51.4	51.0	50	ND	102	101	75-125	0.801	20
Barium	602	559	500	29.76	114	106	75-125	7.37	20
Beryllium	47.7	46.8	50	ND	95	93	75-125	1.99	20
Cadmium	50.8	49.9	50	1.072	99	98	75-125	1.71	20
Chromium	99.1	74.5	50	11.43	175,F10	126,F10	75-125	28.3,F10	20
Cobalt	52.4	52.2	50	2.068	101	100	75-125	0.497	20
Copper	71.4	65.3	50	20.41	102	90	75-125	9.00	20
Lead	721	249	50	340.5	762,F13	0,F13	75-125	NA	20
Mercury	1.22	1.18	1.25	ND	96	93	75-125	3.08	20
Molybdenum	47.2	45.6	50	ND	94	91	75-125	3.62	20
Nickel	140	99.9	50	21.76	235,F10	156,F10	75-125	33.1,F10	20
Selenium	50.4	48.6	50	ND	101	97	75-125	3.53	20
Silver	47.2	46.1	50	ND	94	92	75-125	2.44	20
Thallium	42.0	41.9	50	ND	84	84	75-125	0	20
Vanadium	62.8	67.5	50	5.151	115	125	75-125	7.29	20
Zinc	501	500	500	12.58	98	97	75-125	0.200	20

Surrogate Recovery

Terbium	529	513	500		106	103	70-130	3.13	20
---------	-----	-----	-----	--	-----	-----	--------	------	----

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	55.5	50	11.43	88	75-125
Nickel	66.8	50	21.76	90	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	-	-
Arsenic	ND<2.5	ND	-	-
Barium	30.1	29.76	1.14	-
Beryllium	ND<2.5	ND	-	-
Cadmium	1.30	1.072	21.3	-
Chromium	10.9	11.43	4.64	-
Cobalt	ND<2.5	2.068	-	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: ICP-MS1
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159168
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-159168
 1805H42-001AMS/MSD
 1805H42-001APDS

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Copper	20.1	20.41	1.52	20
Lead	307	340.5	9.84	20
Mercury	ND<0.25	ND	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	21.7	21.76	0.276	20
Selenium	ND<2.5	ND	-	-
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	5.02	5.151	2.54	-
Zinc	ND<25	12.58	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: ICP-MS1
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159176
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-159176
 1805H38-010AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	45.0	0.50	50	-	90	75-125
Arsenic	ND	46.3	0.50	50	-	93	75-125
Barium	ND	453	5.0	500	-	91	75-125
Beryllium	ND	44.5	0.50	50	-	89	75-125
Cadmium	ND	45.6	0.25	50	-	91	75-125
Chromium	ND	43.5	0.50	50	-	87	75-125
Cobalt	ND	44.0	0.50	50	-	88	75-125
Copper	ND	43.6	0.50	50	-	87	75-125
Lead	ND	42.4	0.50	50	-	85	75-125
Mercury	ND	1.07	0.050	1.25	-	86	75-125
Molybdenum	ND	42.0	0.50	50	-	84	75-125
Nickel	ND	43.8	0.50	50	-	88	75-125
Selenium	ND	46.0	0.50	50	-	92	75-125
Silver	ND	42.3	0.50	50	-	85	75-125
Thallium	ND	40.3	0.50	50	-	81	75-125
Vanadium	ND	42.3	0.50	50	-	85	75-125
Zinc	ND	453	5.0	500	-	91	75-125
Surrogate Recovery							
Terbium	492	464		500	98	93	70-130



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: ICP-MS1
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159176
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-159176
 1805H38-010AMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	43.7	47.7	50	ND	86	95	75-125	8.80	20
Arsenic	47.7	51.8	50	5.898	84	92	75-125	8.16	20
Barium	644	697	500	174.0	94	105	75-125	7.86	20
Beryllium	40.4	44.0	50	0.5199	80	87	75-125	8.44	20
Cadmium	43.3	45.6	50	ND	86	91	75-125	5.33	20
Chromium	84.7	87.3	50	41.22	87	92	75-125	3.05	20
Cobalt	47.6	50.6	50	8.304	79	85	75-125	6.25	20
Copper	59.1	62.3	50	19.09	80	86	75-125	5.30	20
Lead	49.9	53.9	50	11.23	77	85	75-125	7.57	20
Mercury	1.04	1.12	1.25	0.08880	76	83	75-125	7.56	20
Molybdenum	40.5	44.3	50	ND	80	88	75-125	8.95	20
Nickel	84.4	87.2	50	42.19	84	90	75-125	3.23	20
Selenium	42.9	45.4	50	ND	85	90	75-125	5.66	20
Silver	40.4	44.0	50	ND	81	88	75-125	8.46	20
Thallium	39.4	42.4	50	ND	79	84	75-125	7.19	20
Vanadium	78.9	81.3	50	35.90	86	91	75-125	3.01	20
Zinc	466	491	500	46.56	84	89	75-125	5.37	20

Surrogate Recovery

Terbium	454	491	500		91	98	70-130	7.87	20
---------	-----	-----	-----	--	----	----	--------	------	----

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	-	-
Arsenic	6.18	5.898	4.78	-
Barium	162	174.0	6.90	20
Beryllium	ND<2.5	0.5199	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	40.9	41.22	0.776	20
Cobalt	8.22	8.304	1.01	-
Copper	18.2	19.09	4.66	20
Lead	10.6	11.23	5.61	-
Mercury	ND<0.25	0.08880	-	-
Molybdenum	ND<2.5	ND	-	-
Nickel	41.2	42.19	2.35	20
Selenium	ND<2.5	ND	-	-

(Cont.)



Quality Control Report

Client: ERAS Environmental, Inc.	WorkOrder: 1805H38
Date Prepared: 5/31/18	BatchID: 159176
Date Analyzed: 6/1/18	Extraction Method: SW3050B
Instrument: ICP-MS1	Analytical Method: SW6020
Matrix: Soil	Unit: mg/Kg
Project: 17221; 1401 West Winton, Hayward, CA	Sample ID: MB/LCS-159176 1805H38-010AMS/MSD

QC Summary Report for Metals

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	35.2	35.90	1.95	20
Zinc	45.3	46.56	2.71	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: ERAS Environmental, Inc.
Date Prepared: 5/31/18
Date Analyzed: 6/1/18
Instrument: GC6A
Matrix: Soil
Project: 17221; 1401 West Winton, Hayward, CA

WorkOrder: 1805H38
BatchID: 159114
Extraction Method: SW3550B/3630C
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-159114
 1805G82-001AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	38.3	1.0	40	-	96	75-128
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.1	21.9		25	96	88	72-122

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	38.7	38.6	40	ND	97	97	71-134	0	30
Surrogate Recovery									
C9	22.0	22.6	25		88	90	78-126	2.92	30



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1805H38

ClientCode: ERAS

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
Project: 17221; 1401 West Winton, Hayward, CA

Bill to:

Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

Requested TAT: 5 days;

Date Received: 05/31/2018

Date Logged: 05/31/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1805H38-001	B-(32,33,34,35) 1-1.5	Soil	5/30/2018 09:00	<input type="checkbox"/>	A	A	A	A	A							
1805H38-002	B-(36,37,38,39) 1-1.5	Soil	5/30/2018 09:25	<input type="checkbox"/>	A	A	A	A	A							
1805H38-003	B-(40,41,42,43) 1-1.5	Soil	5/30/2018 10:05	<input type="checkbox"/>	A	A	A	A	A							
1805H38-004	B-(44,45,46,47) 1-1.5	Soil	5/30/2018 10:44	<input type="checkbox"/>	A	A	A	A	A							
1805H38-005	B-(48,49,50,51) 1-1.5	Soil	5/30/2018 11:17	<input type="checkbox"/>	A	A	A	A	A							
1805H38-006	B-(52,53,54,55) 1-1.5	Soil	5/30/2018 11:44	<input type="checkbox"/>	A	A	A	A	A							
1805H38-007	B-(56,57,58,59) 1-1.5	Soil	5/30/2018 12:40	<input type="checkbox"/>	A	A	A	A	A							
1805H38-008	B-(60,61,62,63) 1-1.5	Soil	5/30/2018 12:51	<input type="checkbox"/>	A	A	A	A	A							
1805H38-009	B-(64,65,66,67) 1-1.5	Soil	5/30/2018 13:06	<input type="checkbox"/>	A	A	A	A	A							
1805H38-010	B-(68,69,70,71) 1-1.5	Soil	5/30/2018 13:22	<input type="checkbox"/>	A	A	A	A	A							
1805H38-011	B-(72,73,74,75) 1-1.5	Soil	5/30/2018 13:35	<input type="checkbox"/>	A	A	A	A	A							
1805H38-012	B-(76,77,78,79) 1-1.5	Soil	5/30/2018 13:50	<input type="checkbox"/>	A	A	A	A	A							

Test Legend:

1	8260B_S	2	8260GAS_S	3	8270_S	4	CAM17MS_TTLC_S
5	TPH(DMO)WSG_S	6		7		8	
9		10		11		12	

Prepared by: Keylen Juarez

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup Gas8260_S.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward, CA

Work Order: 1805H38

Client Contact: Andrew Savage

QC Level: LEVEL 2

Contact's Email: info@eras.biz; andrew@eras.biz

Comments:

Date Logged: 5/31/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1805H38-001A	B-(32,33,34,35) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 9:00	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-002A	B-(36,37,38,39) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 9:25	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-003A	B-(40,41,42,43) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 10:05	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-004A	B-(44,45,46,47) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 10:44	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward, CA

Work Order: 1805H38

Client Contact: Andrew Savage

QC Level: LEVEL 2

Contact's Email: info@eras.biz; andrew@eras.biz

Comments:

Date Logged: 5/31/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1805H38-005A	B-(48,49,50,51) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 11:17	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-006A	B-(52,53,54,55) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 11:44	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-007A	B-(56,57,58,59) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 12:40	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-008A	B-(60,61,62,63) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 12:51	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: ERAS ENVIRONMENTAL, INC.

Project: 17221; 1401 West Winton, Hayward, CA

Work Order: 1805H38

Client Contact: Andrew Savage

QC Level: LEVEL 2

Contact's Email: info@eras.biz; andrew@eras.biz

Comments:

Date Logged: 5/31/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut		
1805H38-009A	B-(64,65,66,67) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 13:06	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-010A	B-(68,69,70,71) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 13:22	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-011A	B-(72,73,74,75) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 13:35	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>
1805H38-012A	B-(76,77,78,79) 1-1.5	Soil	SW8015B (TPH-d,mo w/ S.G. Clean-Up)	4 / (4:1)	Stainless Steel tube 2"x6"	<input type="checkbox"/>	5/30/2018 13:50	5 days		<input type="checkbox"/>			
			SW6020 (CAM 17)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			SW8270C (SVOCs)			<input type="checkbox"/>						5 days	<input type="checkbox"/>
			TPH(g) & 8260 by P&T GCMS			<input type="checkbox"/>						5 days	<input type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

#1805H38

CHAIN OF CUSTODY FORM

#1013

McCampbell Analytical, Inc
 1534 Willow Pass Rd.
 Pittsburg, CA 94565
 877.252.9262
 925.252.9269 - fax

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399
 Project #: 17221
 Project location: 1401 West Winton, Hayward
 Sampler: Andrew Savage

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix					Preservative					Tph-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270	Analysis Requested	Other	Comments
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None						
		B-32, 1-1.5				5/30/2018	8:44	1	Tube										
B-33, 1-1.5		5/30/2018	8:46	1	Tube								X				COMPOSITE		
B-34, 1-1.5		5/30/2018	8:54	1	Tube								X						
B-35, 1-1.5		5/30/2018	9:00	1	Tube								X						
B-36, 1-1.5		5/30/2018	9:07	1	Tube								X						
B-37, 1-1.5		5/30/2018	9:13	1	Tube								X				COMPOSITE		
B-38, 1-1.5		5/30/2018	9:20	1	Tube								X						
B-39, 1-1.5		5/30/2018	9:25	1	Tube								X						
B-40, 1-1.5		5/30/2018	9:41	1	Tube								X						
B-41, 1-1.5		5/30/2018	9:45	1	Tube								X				COMPOSITE		
B-42, 1-1.5		5/30/2018	9:58	1	Tube								X						
B-43, 1-1.5		5/30/2018	10:05	1	Tube								X						
B-44, 1-1.5		5/30/2018	10:17	1	Tube								X						
B-45, 1-1.5		5/30/2018	10:21	1	Tube								X				COMPOSITE		
B-46, 1-1.5		5/30/2018	10:39	1	Tube								X						
B-47, 1-1.5		5/30/2018	10:44	1	Tube								X						

RELINQUISHED BY:		RECEIVED BY:	
Relinquished by: <i>[Signature]</i>	Date: <u>5/31/18</u>	Time: <u>10AM</u>	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date: <u>5/31/18</u>	Time: <u>1:00</u>	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date: <u>5/31/18</u>	Time: <u>1:00</u>	Received by: <i>[Signature]</i>

ICE/t- Condition: <u>2.40 wet</u>	Comments: Please PDF and PROVIDE J FLAGS
Head space absent	
Dechlorinated in lab	
Appropriate containers	
Preserved in Lab	
Preservation: VOA's O&G Metals Other pH<2	

#1805 H38 CHAIN OF CUSTODY FORM

#2 of 3

McCampbell Analytical, Inc
1534 Willow Pass Rd.
Pittsburg, CA 94565
877.252.9262
925.252.9269 - fax

Report To: ERAS Bill To: ERAS
 Company: ERAS Environmental, Inc.
 Email: info@eras.biz
 Telephone: 510-247-9885 Fax: 510-886-5399
 Project #: 17221
 Project location: 1401 West Winton, Hayward
 Sampler: Andrew Savage

Turnaround Time: Rush 24Hr 48 Hr 72 Hr 5 Day
 Geotracker: EDF Excel Write On (DW)

Analysis Requested										Other	Comments	
TPH-gro and VOCs by EPA Method 8260 TPH-dro and TPH-oro by EPA Method 8015 with silica gel cleanup CAM 17 Metals SVOC by EPA Method 8270												

Sample ID	Location/Field Point Name	Sampling		# of Containers	Container Type	Matrix			Preservative					
		Date	Time			Soil	Water	Waste	HCL	H2SO4	HNO3	ICE	None	
B-48, 1-1.5		5/30/2018	10:50	1	Tube							X		
B-49, 1-1.5		5/30/2018	10:54	1	Tube							X		
B-50, 1-1.5		5/30/2018	11:13	1	Tube							X		
B-51, 1-1.5		5/30/2018	11:17	1	Tube							X		
B-52, 1-1.5		5/30/2018	11:25	1	Tube							X		
B-53, 1-1.5		5/30/2018	11:30	1	Tube							X		
B-54, 1-1.5		5/30/2018	11:38	1	Tube							X		
B-55, 1-1.5		5/30/2018	11:44	1	Tube							X		
B-56, 1-1.5		5/30/2018	12:25	1	Tube							X		
B-57, 1-1.5		5/30/2018	12:30	1	Tube							X		
B-58, 1-1.5		5/30/2018	12:35	1	Tube							X		
B-59, 1-1.5		5/30/2018	12:40	1	Tube							X		
B-60, 1-1.5		5/30/2018	12:43	1	Tube							X		
B-61, 1-1.5		5/30/2018	12:46	1	Tube							X		
B-62, 1-1.5		5/30/2018	12:49	1	Tube							X		
B-63, 1-1.5		5/30/2018	12:51	1	Tube							X		

RELINQUISHED BY:			RECEIVED BY:		
Relinquished by: <i>[Signature]</i>	Date: 5/31/18	Time: 10A	Received by: <i>[Signature]</i>	Date: 5/31/18	Time: 1200
Relinquished by: <i>[Signature]</i>	Date: 5/31/18	Time: 1200	Received by: <i>[Signature]</i>		
Relinquished by:	Date:	Time:	Received by:		

ICE/Condition: 2.40 wet	Comments: Please PDF and PROVIDE J FLAGS
Head space absent	
Dechlorinated in lab	
Appropriate containers	
Preserved in Lab	
Preservation: VOA's O&G Metals Other pH<2	



Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.**
 Project: **17221; 1401 West Winton, Hayward, CA**
 WorkOrder No: **1805H38** Matrix: Soil
 Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received: **5/31/2018 18:00**
 Date Logged: **5/31/2018**
 Received by: **Keylen Juarez**
 Logged by: **Keylen Juarez**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(Ice Type: WET ICE)			
Sample/Temp Blank temperature		Temp: 2.4°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
<u>UCMR Samples:</u>			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

 Comments:

ATTACHMENT D

**Average Concentrations of Elements
In Alameda County, California**



Mineral Resources On-Line Spatial Data

Counties page > As in Conterminous US > As in southwestern US > Averages in Alameda County

Average concentrations of elements in Alameda County, California

(Calculated from cells in the geochemical grid plotting in this area.)

Element	Symbol	Mean	Std. dev.	Minimum	Maximum
Aluminum	Al (wt%)	6.556	0.474	5.152	8.003
Arsenic	As (ppm)	8.396	2.253	4.184	17.411
Calcium	Ca (wt%)	1.413	0.295	0.879	2.245
Copper	Cu (ppm)	40.644	18.743	13.986	103.827
Iron	Fe (wt%)	3.054	0.574	1.993	4.649
Mercury	Hg (ppm)	0.254	0.303	0.028	1.500
Magnesium	Mg (wt%)	1.218	0.730	0.482	5.516
Manganese	Mn (ppm)	632.610	204.361	312.313	1550.600
Sodium	Na (wt%)	1.718	0.187	1.356	2.120
Phosphorus	P (wt%)	0.066	0.011	0.036	0.099
Lead	Pb (ppm)	157.843	325.772	8.350	1616.060
Selenium	Se (ppm)	0.318	0.111	0.107	0.698
Titanium	Ti (wt%)	0.328	0.034	0.256	0.415
Zinc	Zn (ppm)	122.947	92.078	40.946	493.126



Federal Aviation Administration

January 19, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcneeley@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
Douglas.mcneeley@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). It lists five cases for HAYWARD, CA with various coordinates and altitudes.

Description: Support building for ARFF/Fire training Facility Point A1.1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

You comply with Chapters of Advisory Circular 70/7460-1L, Obstruction Marking and Lighting.

Recommend installation of red obstruction lighting on this point of structure because height penetrates an FAR Part 77 protected surface.(2017-AWP-3662-NRA & 2017-AWP-3663-NRA)

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 19, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcnealey@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
douglas.mcnealey@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). It lists three cases for HAYWARD, CA with their respective coordinates and altitudes.

Description: Support Building for ARFF/Fire Training Facility Point B-1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

You comply with Chapters of Advisory Circular 70/7460-1L, Obstruction Marking and Lighting.

Recommend installation of red obstruction lighting. Structure height penetrates an FAR Part 77 protected surface.

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcneeley@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
Douglas.mcneeley@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). It lists six cases for HAYWARD, CA with various coordinates and altitudes.

Description: ARFF Building Point C-1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcnealey@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
douglas.mcnealey@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). It lists four cases for HAYWARD, CA with various ASN numbers and coordinates.

Description: Support Building for ARFF/Fire Training Facility Point D-1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcnealey@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
douglas.mcnealey@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). It lists four cases for HAYWARD, CA with various coordinates and altitudes.

Description: Support Building for ARFF/Fire Training Facility Point E-1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcnealey@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
douglas.mcnealey@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). Rows list various 2017-AWP-NRA cases for HAYWARD, CA with their respective coordinates and altitudes.

Description: Support Building for ARFF/Fire Training Facility Point F-

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

You comply with Chapters of Advisory Circular 70/7460-1L, Obstruction Marking and Lighting.

Recommend installation of red obstruction lighting. Structure height penetrates an FAR Part 77 protected surface. (2017-AWP-3690-NRA)

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcnealey@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
douglas.mcnealey@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). Rows include 2018-AWP-1-NRA through 2018-AWP-4-NRA.

Description: Support Building for ARFF/Fire Training Facility Point G-1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property

on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser



Federal Aviation Administration

January 22, 2018

TO: Hayward Executive Airport
Attn: Doug McNeeley
20301 Skywest Dr.
Hayward, CA 94541-4699
douglas.mcnealey@hayward-ca.gov

CC: CITY OF HAYWARD
777 B ST
HAYWARD, CA 94541
douglas.mcnealey@hayward-ca.gov

CC: AECOM
Attn: Jeffrey Carlson
756 East Winchester St.
Salt Lake City, UT 84003
jeffrey.carlson2@aecom.com

RE: (See attached Table 1 for referenced case(s))
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

Table with 7 columns: ASN, Prior ASN, Location, Latitude (NAD83), Longitude (NAD83), AGL (Feet), AMSL (Feet). It contains two rows of data for cases AWP-3692-NRA and AWP-3693-NRA.

Description: Support Building for ARFF/Fire Training Facility Point J-1

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) 5 business days prior to the beginning of the project.

This determination is subject to review if disruption to FAA Operations should occur.

The new development must be coordinated with the airport sponsor and included in the next update to the Airport Layout Plan

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property

on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on July 22, 2019 unless:

(a) extended, revised or terminated by the issuing office.

(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650
lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser

**HAYWARD FIRE STATION #6 &
REGIONAL ARFF FIRE TRAINING CENTER**
APN 432-0124-001-04

STORMWATER MANAGEMENT PLAN

**CITY OF HAYWARD
ALAMEDA COUNTY
CALIFORNIA**

February 1, 2018

Prepared by:



200 4TH ST, STE. 300
SANTA ROSA, CA 95401
707.583.8500

Report prepared for:

Region Water Quality Control Board

Stormwater Management Plan for Hayward Fire Station #6 & Regional ARFF Fire Training Center

City Permit Number:

BKF Engineers Job No.: 20159134 – 12

PRELIMINARY

Bryan Jackson, P.E.

BKF Engineers

TABLE OF CONTENTS

I. PROJECT SETTING	4
A. Project Description and Information Summary.....	4
B. Opportunities and Constraints of Stormwater Management	4
II. MEASURES TO LIMIT IMPERVIOUSNESS	5
A. Pervious Site Improvements.....	5
B. Drainage as a Design Element	5
C. Minimizing Volume of Runoff.....	5
III. Selection and Primary Design of Storm Water Treatment BMP’s	5
A. General Bioretention Area Characteristics.....	5
B. Specific descriptions of each DMA and stormwater treatment measure are as follows:.....	6
IV. Source Control Measures	7
V. Permitting and Code Compliance Issues	7
VI. Construction Plan C.3 Checklist	8
VII. Owner’s Certification	8

TABLES

Table 1: Bioretention Area Summary	6
Table 2. Sources and Source Control BMP's.....	7
Table 3. Construction Plan C.3 Checklist	8

APPENDIX

Appendix A: Stormwater Management Plan Exhibit

Appendix B: Worksheets for Calculating the Combination Flow and Volume Method

Appendix C: Stormwater Detention Calculations

I. PROJECT SETTING

A. Project Description and Information Summary

The project site is located directly south of Hayward Executive Airport and north of West Winton Avenue, between Saklan Road and Hesperian Boulevard. The site consists of an existing fire station and open space, which will be redeveloped into a new fire station and fire training center. The property surrounded by the proposed site will remain as existing. Refer to Stormwater Management Plan exhibit for limit of work.

Proposed improvements include the following:

- 8 new buildings
- Utilities – storm drain, sanitary sewer, water, irrigation, and joint trench
- Bioretention areas
- Planting areas
- Street lights
- Parking areas
- Street improvements to West Winton Avenue

Upon completion of the construction and demolition activities for Fire Station #6 and Fire Training Center, the site will be approximately 77% impervious and 23% pervious. Since the proposed improvements will replace/create more than 10,000 square feet of impervious surface, the project is subject to the treatment and flow components referenced in the NPDES permit.

B. Opportunities and Constraints of Stormwater Management

The Storm Water Management Plan exhibit divides the site into sub-basins as determined by the grading and drainage patterns of the proposed fire station and fire training center; and the methods proposed to remove suspended solids and pollutants from storm water runoff. Treatment of all runoff from the project area is required according to current stormwater C.3 requirements. Storm water treatment requirements are met by implementing bioretention areas throughout the site to treat the proposed improvements.

Opportunities:

The project will conform to the existing terrain of the site. The onsite storm drain system will collect the runoff after treatment in bioretention areas and direct drainage to an onsite detention system before entering the public storm drain main. During non-treatment storm events, runoff will bypass bioretention areas and enter the storm drain system through overflow inlets.

Constraints:

Infiltration of storm water into the site soils is considered infeasible due existing site soil properties reported by the Geotechnical Engineer.

II. MEASURES TO LIMIT IMPERVIOUSNESS

A. Pervious Site Improvements

- Roadside bioretention areas, planting areas, and pervious/permeable paving.

B. Drainage as a Design Element

- Bioretention areas treat stormwater by allowing stormwater to infiltrate through engineered soil. A perforated pipe collects and conveys the treated subsurface stormwater to storm drain catch basins which drain to underground storm drains. The underground stormdrain system then connects to the municipal stormdrain in West Winton Avenue.

C. Minimizing Volume of Runoff

- Bioretention areas have been designed and sized per the combination of flow and volume design criteria indicated on the C.3 Stormwater Technical Guidance handbook.

III. Selection and Primary Design of Storm Water Treatment BMP's

Project site is separated into 15 shed areas as shown on the Stormwater Management Plan exhibit. The stormwater runoff from each sub-basin drains to specific treatment areas. Bioretention areas contain a 12" layer of permeable rock which allows storage to address hydrograph modification requirements, as demonstrated in Appendix C.

A. General Bioretention Area Characteristics

The bioretention areas are designed to meet the C.3 Stormwater Technical Guidance (Version 3.0) combination of flow and volume design criteria. 14 of the 15 bioretention areas are sized such that soil mix surface area (not including side slopes) meet the minimum ponding depth for the calculated stormwater inflow volume. Due to site area and grading constraints, bioretention area BR-6 is unable to provide the requisite ponding depth. The 14 other bioretention areas have been oversized to allow more treatment and volume capture to offset this. See Appendix A for an exhibit detailing the location and area of each bioretention area, and Exhibit B for the *Worksheets for Calculating the Combination Flow and Volume Method*.

The depth of the surface ponding area is sized so that the ponding area functions to retain water prior to it entering the soil at a minimum 5 inches per hour required by MRP provision C.3.c.i(2)(c)(ii). Provision C.3.d of the MRP specifies that treatment measures that use a combination of flow and volume capacity shall be sized to treat at least 80 percent of the total runoff over the life of the project, using local rainfall. A sizing summary of each bioretention area can be found on **Table 1**.

Each bioretention area was designed with the following characteristics:

- Ponding depth is 6 inches minimum in bioretention areas. Overflow inlet shall be 6"-12" from flow line.
- Vegetation selected for viability and to minimize need for fertilizers and pesticides in well-drained soil.

- 18” of engineered biotreatment soil mix per County of Alameda specifications. Treatment soil infiltrates at 5 inches per hour.
- 12” class II permeable rock per Caltrans specifications in which perforated pipe is installed.
- 6” Perforated-pipe subdrain connected to storm drainage system.
- Sides of Bioretention Areas are retained with vertical/slotted curbs or side slopes that do not exceed 3:1.
- Sloped cobbles for energy dissipation at 12” curb cut inlets will be installed.
- 24” level area above side slopes to prevent erosion
- Waterproof liner to be installed up the side of the class II permeable layer and bio-treatment soil mix.
- Tributary areas which drain to bioretention areas do not exceed 2 acres.

Table 1: Bioretention Area Summary

BIORETENTION NAME	AREA PROVIDED (SF)	PONDING DEPTH PROVIDED (in)
BR-1	266	6
BR-2	195	10
BR-3	360	12
BR-4	446	6
BR-5	596	6
BR-6	178	6
BR-7	658	6
BR-8	1679	6
BR-9	1300	6
BR-10	682	6
BR-11	437	6
BR-12	561	6
BR-13	632	6
BR-14	125	6
BR-15	120	6
Total:	8235	

B. Specific descriptions of each DMA and stormwater treatment measure:

A summary of all proposed sub-basins have been listed in **Table 1**. Stormwater from each sub-basin are directed by grading and/or storm drain pipes to their respective bioretention areas for treatment.

IV. Source Control Measures

The following activities occur in areas designated for improvements have potential to allow pollutants to enter runoff:

- Landscape maintenance
- Street sweeping
- Construction/demolition of buildings
- Grading

All areas where these activities occur will drain to Bioretention Areas. To further reduce the potential for pollutants to enter runoff, permanent and operational BMP's to be implemented.

Table 2. Sources and Source Control BMP's

Potential Source	Permanent BMP's	Operational BMP's
On-site Storm Drain Inlets	<ul style="list-style-type: none"> • Mark all inlets with the words "No Dumping! Drains to Bay" or similar 	<ul style="list-style-type: none"> • Maintain and periodically repaint or replace inlet markings.
Landscape/outdoor pesticide and fertilizer use.	<ul style="list-style-type: none"> • Landscaping will be designed to minimize required irrigation and runoff, to promote surface infiltration, and to minimize the use of fertilizers and pesticides that can contribute to storm water pollution. • Plantings for IMP's will be selected to be appropriate to anticipated soil and moisture conditions. • Where possible, pest-resistant plants will be selected, especially for locations adjacent to hardscape. • Plants will be selected appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions. 	<ul style="list-style-type: none"> • Landscaping to be maintained using minimum or no pesticides. • Person or contractor responsible for landscape maintenance to use IPM principles.
Plazas and sidewalks Facility Cleaning Construction and Demolition of Buildings		<ul style="list-style-type: none"> • Potential sources shall be swept regularly to prevent the accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Wash water containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.

V. Permitting and Code Compliance Issues

There are no known conflicts between the proposed Storm Water Management Plan and Alameda County ordinances or policies. Any conflicts found will be resolved through the design review process or during subsequent permitting.

VI. Construction Plan C.3 Checklist

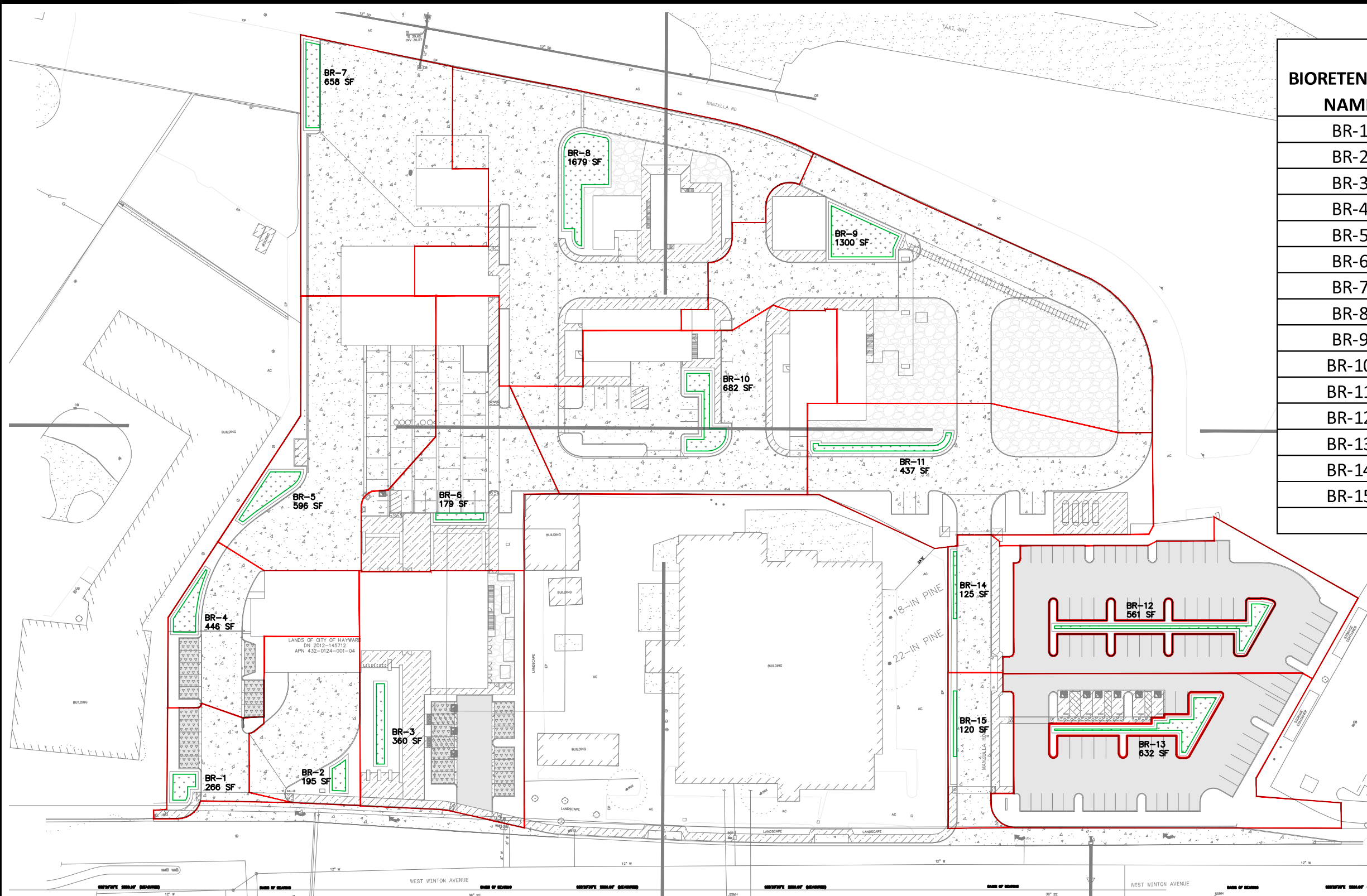
Table 3. Construction Plan C.3 Checklist

Storm Water Management Plan Reference	BMP Description	Improvement Plan Sheet Number
Stormwater Management Plan Exhibit	Bioretention Areas – Detains runoff in a surface reservoir, filters it through plant roots and a biologically active soil mix, and then infiltrates it into the ground.	Stormwater Management Plan Exhibit

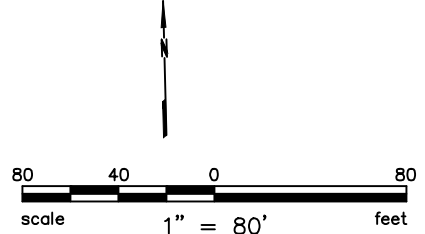
VII. Owner's Certification

The selection, sizing, and preliminary design of treatment BMP's and other control measures in the plan meet the requirements of Regional Water Quality Control Board Order R2-2015-0049.

APPENDIX A



BIORETENTION NAME	AREA PROVIDED (SF)	PONDING DEPTH PROVIDED (in)
BR-1	266	6
BR-2	195	10
BR-3	360	12
BR-4	446	6
BR-5	596	6
BR-6	178	6
BR-7	658	6
BR-8	1679	6
BR-9	1300	6
BR-10	682	6
BR-11	437	6
BR-12	561	6
BR-13	632	6
BR-14	125	6
BR-15	120	6
Total:	8235	



Plot Feb 01, 2018 at 12:51pm

BKF
 ENGINEERS / SURVEYORS / PLANNERS
 200 4TH ST, STE. 300 SANTA ROSA, CA 95401
 (707) 583-8500 FAX: (707) 583-8539

HAYWARD FIRE TRAINING CENTER

STORMWATER MANAGEMENT PLAN EXHIBIT

APPENDIX B

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-1**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	2,932	1.0	2,932
2-3 Pervious service	1,793	0.1	179
Total DMA Area (square feet) =			4,725

- 2-4 Total Effective Impervious Area (EIA) **3,111** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **161** Cubic feet

(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **124** Square feet
- 5-2 Area 25% smaller than item 5-1: **93** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **121** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **40** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **266** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **345** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **(183)** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **-0.69** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **-8.28** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **266** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-2**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	7,700	1.0	7,700
2-3 Pervious service	1,719	0.1	172
Total DMA Area (square feet) =			9,419

- 2-4 Total Effective Impervious Area (EIA) **7,872** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **408** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **315** Square feet
- 5-2 Area 25% smaller than item 5-1: **236** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **306** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **102** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **195** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **253** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **155** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.80** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **9.56** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **195** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-3**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	15,093	1.0	15,093
2-3 Pervious service	7,076	0.1	708
Total DMA Area (square feet) =			22,169

- 2-4 Total Effective Impervious Area (EIA) **15,801** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **819** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **632** Square feet
- 5-2 Area 25% smaller than item 5-1: **474** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **614** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **205** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **360** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **467** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **353** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.98** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **11.75** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **360** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-4**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	8,700	1.0	8,700
2-3 Pervious service	2,445	0.1	245
Total DMA Area (square feet) =		11,145	

- 2-4 Total Effective Impervious Area (EIA) **8,945** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **464** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **358** Square feet
- 5-2 Area 25% smaller than item 5-1: **268** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **348** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **116** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **446** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **578** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **(114)** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **-0.26** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **-3.08** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **446** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-5**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	18,340	1.0	18,340
2-3 Pervious service	2,208	0.1	221
Total DMA Area (square feet) =			20,548

- 2-4 Total Effective Impervious Area (EIA) **18,561** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **962** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **742** Square feet
- 5-2 Area 25% smaller than item 5-1: **557** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **722** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **241** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **596** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **773** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **190** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.32** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **3.82** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **596** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-6**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	16,099	1.0	16,099
2-3 Pervious service	807	0.1	81
Total DMA Area (square feet) =		16,906	

- 2-4 Total Effective Impervious Area (EIA) **16,180** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **839** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **647** Square feet
- 5-2 Area 25% smaller than item 5-1: **485** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **629** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **210** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **178** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **231** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **608** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **3.42** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **41.00** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **178** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-1**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	19,727	1.0	19,727
2-3 Pervious service	1,530	0.1	153
Total DMA Area (square feet) =			21,257

- 2-4 Total Effective Impervious Area (EIA) **19,880** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **1,031** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **795** Square feet
- 5-2 Area 25% smaller than item 5-1: **596** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **773** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **258** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **658** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **853** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **178** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.27** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **3.24** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **658** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-8**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	33,700	1.0	33,700
2-3 Pervious service	5,895	0.1	590
Total DMA Area (square feet) =			39,595

- 2-4 Total Effective Impervious Area (EIA) **34,290** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **1,778** Cubic feet

(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **1,372** Square feet
- 5-2 Area 25% smaller than item 5-1: **1,029** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **1,333** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **444** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **1679** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **2,176** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **(399)** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **-0.24** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **-2.85** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **1,679** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹ **16.0** Inches
- 1-6 Applicable Rain Gauge² **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-9**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	24,558	1.0	24,558
2-3 Pervious service	14,549	0.1	1,455
Total DMA Area (square feet) =		39,107	

- 2-4 Total Effective Impervious Area (EIA) **26,013** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **1,349** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1 **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface **1,041** Square feet
- 5-2 Area 25% smaller than item 5-1 **780** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2 **1,012** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3 **337** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2 **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2 **1300** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1 **1,685** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3 **(336)** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1 **-0.26** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches **-3.10** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment* **1,300** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1 Project Name: **Hayward Fire Training Center**
 1-2 City application ID: **0**
 1-3 Site Address or APN: **432-0124-001-04**
 1-4 Tract or Parcel Map No: **0**
 1-5 Site Mean Annual Precip. (MAP)¹ **16.0** Inches

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

1-6 Applicable Rain Gauge² **San Jose**
 Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **BR-10**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	21,892	1.0	21,892
2-3 Pervious service	3,741	0.1	374
Total DMA Area (square feet) =		25,633	

2-4 Total Effective Impervious Area (EIA) **22,266** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
 (The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

3-2 Adjusted unit basin storage volume: **0.62** Inches
 (The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3-3 Required Capture Volume (in cubic feet): **1,155** Cubic feet
 (The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity **0.2** Inches per hour
 4-2 Divide Item 3-2 by Item 4-1 **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA impervious surface **891** Square feet
 5-2 Area 25% smaller than item 5-1 **668** Square feet
 5-3 Volume of treated runoff for area in Item 5-2 **866** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3 **289** Cubic feet (Amount of runoff to be stored in ponding area)
 6-2 Divide Item 6-1 by Item 5-2 **0.4** Feet (Depth of stored runoff in surface ponding area)
 6-3 Convert Item 6-2 from ft to inches **5.2** Inches (Depth of stored runoff in surface ponding area)
 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger or smaller than Item 5-2 **682** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
 7-2 Volume of treated runoff for area in Item 7-1 **884** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
 7-3 Subtract Item 7-2 from Item 3-3 **270** Cubic feet (Amount of runoff to be stored in ponding area)
 7-4 Divide Item 7-3 by Item 7-1 **0.40** Feet (Depth of stored runoff in surface ponding area)
 7-5 Convert Item 7-4 from feet to inches **4.76** Inches (Depth of stored runoff in surface ponding area)
 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment* **682** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-11**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	11,211	1.0	11,211
2-3 Pervious service	11,503	0.1	1,150
Total DMA Area (square feet) =			22,714

- 2-4 Total Effective Impervious Area (EIA) **12,361** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **641** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **494** Square feet
- 5-2 Area 25% smaller than item 5-1: **371** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **481** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **160** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **437** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **566** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **74** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.17** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **2.05** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **437** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-12**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	17,824	1.0	17,824
2-3 Pervious service	5,075	0.1	508
Total DMA Area (square feet) =			22,899

- 2-4 Total Effective Impervious Area (EIA) **18,332** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **951** Cubic feet

(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **733** Square feet
- 5-2 Area 25% smaller than item 5-1: **550** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **713** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **238** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **561** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **727** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **223** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.40** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **4.78** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **561** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-13**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	16,653	1.0	16,653
2-3 Pervious service	7,756	0.1	776
Total DMA Area (square feet) =		24,409	

- 2-4 Total Effective Impervious Area (EIA) **17,429** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches

(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches

(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **904** Cubic feet

(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **697** Square feet
- 5-2 Area 25% smaller than item 5-1: **523** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **678** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **226** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **632** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **819** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **84** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.13** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **1.60** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **632** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹: **16.0** Inches
- 1-6 Applicable Rain Gauge²: **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-14**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	3,308	1.0	3,308
2-3 Pervious service	1,536	0.1	154
Total DMA Area (square feet) =			4,844

- 2-4 Total Effective Impervious Area (EIA) **3,462** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **179** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity: **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1: **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface: **138** Square feet
- 5-2 Area 25% smaller than item 5-1: **104** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2: **135** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3: **45** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2: **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches: **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2: **125** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1: **162** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3: **17** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1: **0.14** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches: **1.68** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment*: **125** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

- 1-1 Project Name: **Hayward Fire Training Center**
- 1-2 City application ID: **0**
- 1-3 Site Address or APN: **432-0124-001-04**
- 1-4 Tract or Parcel Map No: **0**
- 1-5 Site Mean Annual Precip. (MAP)¹ **16.0** Inches
- 1-6 Applicable Rain Gauge² **San Jose**

The calculations presented here are based on the **combination flow and volume hydraulic sizing method** provided in the Clean Water Program Alameda County C.3 Technical Guidance, Version 4.0. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manual, applicable portions of which are included in this file, in the tab called "Guidance from Chapter 5".

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)

Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.

MAP adjustment factor is automatically calculated as: **1.11**

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

- 2-1 Name of DMA: **BR-15**

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	3,970	1.0	3,970
2-3 Pervious service	1,236	0.1	124
Total DMA Area (square feet) =			5,206

- 2-4 Total Effective Impervious Area (EIA) **4,094** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients
		Coefficient of 1.00
Oakland Airport	18.35	0.67
San Jose	14.4	0.56

- 3-1 Unit basin storage volume from Table 5.2: **0.56** Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

- 3-2 Adjusted unit basin storage volume: **0.62** Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

- 3-3 Required Capture Volume (in cubic feet): **212** Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

- 4-1 Rainfall intensity **0.2** Inches per hour
- 4-2 Divide Item 3-2 by Item 4-1 **3.11** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

- 5-1 4% of DMA impervious surface **164** Square feet
- 5-2 Area 25% smaller than item 5-1 **123** Square feet
- 5-3 Volume of treated runoff for area in Item 5-2 **159** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

- 6-1 Subtract Item 5-3 from Item 3-3 **53** Cubic feet (Amount of runoff to be stored in ponding area)
- 6-2 Divide Item 6-1 by Item 5-2 **0.4** Feet (Depth of stored runoff in surface ponding area)
- 6-3 Convert Item 6-2 from ft to inches **5.2** Inches (Depth of stored runoff in surface ponding area)
- 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

- 7-1 Enter an area larger or smaller than Item 5-2 **120** Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
- 7-2 Volume of treated runoff for area in Item 7-1 **156** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
- 7-3 Subtract Item 7-2 from Item 3-3 **57** Cubic feet (Amount of runoff to be stored in ponding area)
- 7-4 Divide Item 7-3 by Item 7-1 **0.47** Feet (Depth of stored runoff in surface ponding area)
- 7-5 Convert Item 7-4 from feet to inches **5.67** Inches (Depth of stored runoff in surface ponding area)
- 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth

8.0 Surface Area of Treatment Measure for DMA

- 8-1 Final surface area of treatment* **120** Square feet (Either Item 5-2 or final amount in Item 7-1)

*Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

APPENDIX C

TECHNICAL MEMORANDUM

Date: 02/01/2017

BKF Job Number: 20159134

Deliver To:

From: BKF Engineers

Subject: Hayward Fire Training Center Hydrology and Hydraulics Memorandum

REMARKS:

This memorandum has been prepared to address hydrology considerations associated with the proposed site improvements for the Hayward Firestation #6 & Regional ARFF Fire Training Center located at 1401 West Winton Avenue in Hayward.

Detention Basin Design

The project proposes to redevelop the site of an existing fire station and open space into a new fire station and fire training center. The property surrounded by the proposed site will remain as existing. In reviewing the Natural Resources Conservation Services Soil Map, the site is located on clay and silty clay soils, with a soil hydrologic group C.

As requested by Bryan Jackson of BKF Engineers, this analysis will utilize the software program Storm and Sanitary Sewers Analysis 2015 by Autodesk to perform the SCS TR-55 hydrologic analysis for the pre-construction and post-construction conditions for the 100-year design storm.

The topographical data for the immediate project site is based on aerial survey conducted by Geoterra dated April 4, 2016 and supplemented by field survey conducted by BKF Engineers, dated April 27, 2016. The watershed determined in analyzing and comparing the pre-construction and post-construction stormwater runoff conditions is based on the proposed area of disturbed soil for the project, or 6.86 acres.

According to the NOAA (National Oceanic and Atmospheric Administration) isopluvial precipitation maps, the site is expected to receive approximately 5.7 inches of rain in a 24 hour period during the 100-year design storm.

In establishing the base conditions for the site, a watershed runoff model was developed using the pre-construction conditions (existing conditions) for the project watershed. Half of the pre-construction project watershed is an undeveloped vegetated meadow while the other half is developed urban commercial. The storm water runoff derived within this watershed currently travels from the proposed from the south end of the property towards the northern property line. Portions of the existing parking lot drain towards West Winton Avenue.

Based on the existing project conditions, the composite SCS Curve Number for the project site is 82.47.

27

The storm water runoff within the pre-construction watershed is a combination of sheet flow and shallow concentrated flow. The pre-construction stormwater hydrograph for the 100-year storm event is below:

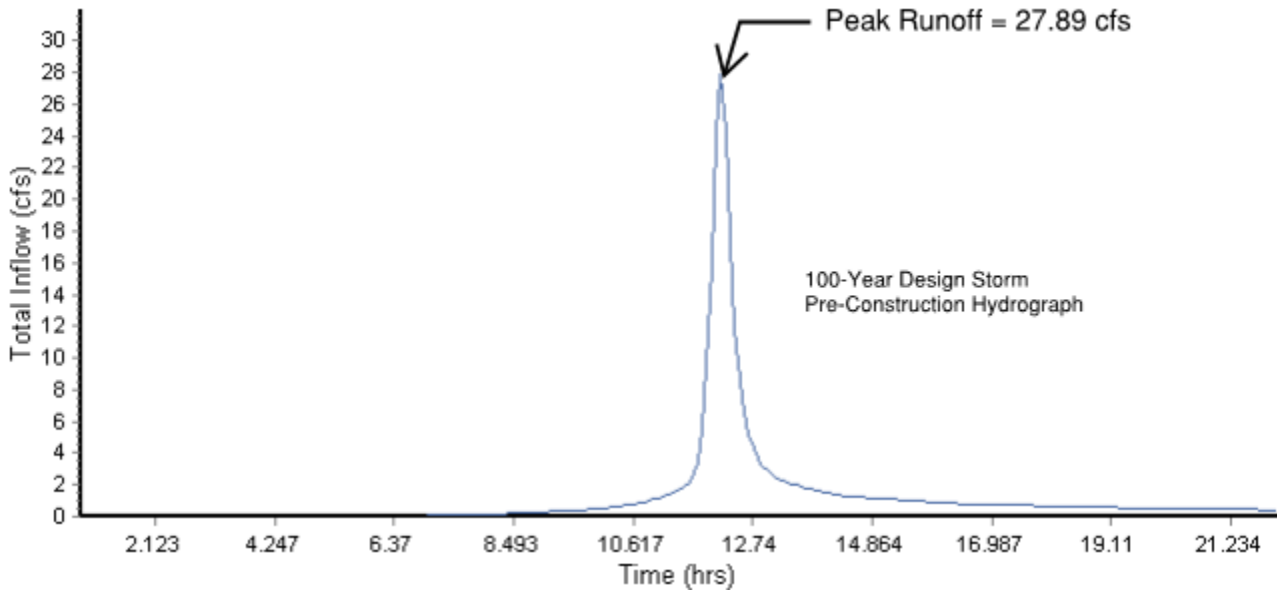


Figure 1: 100-Year Pre-Construction Hydrograph

According to the pre-construction hydrograph, the theoretical peak storm water flow from the site is 27.89 cubic feet per second.

The composite curve number for the post-construction conditions increases to 94.

In the post-construction conditions, stormwater runoff is conveyed through a combination of channel flow (within proposed driveway swales) and sheet flow. The post-construction hydrograph for the 100-year design storm is below:

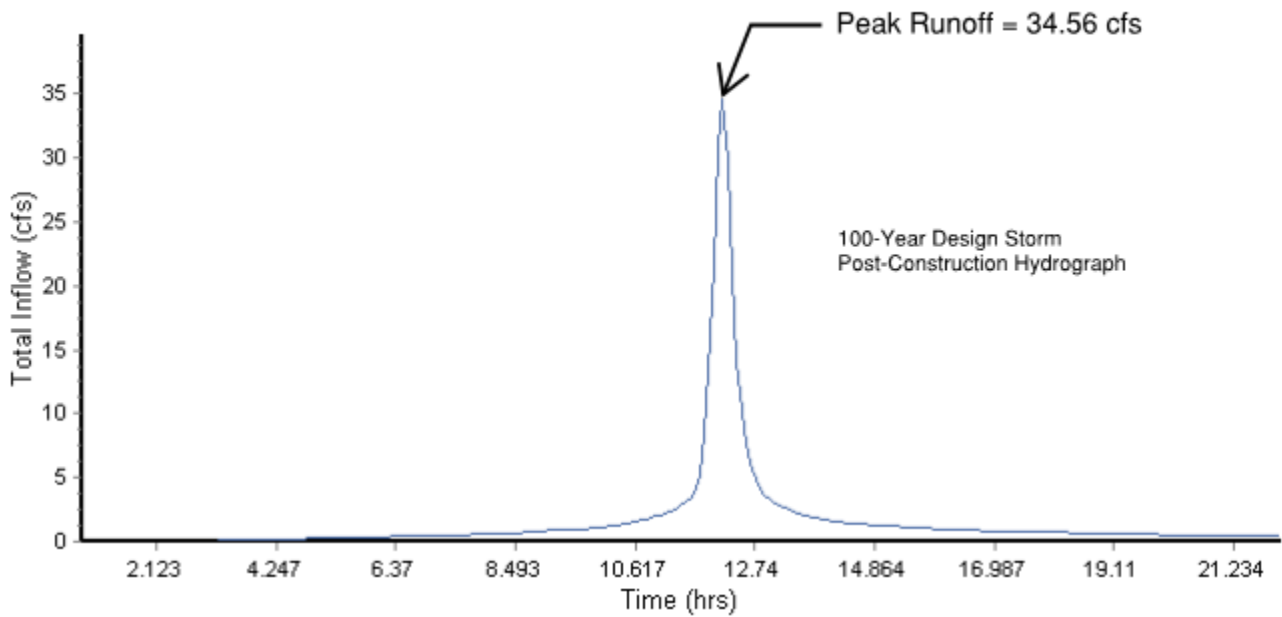


Figure 2: 100-Year Post-Construction Hydrograph

According to the post-construction hydrograph, the theoretical peak storm water flow from the site is 34.56 cubic feet per second.

The post-construction watershed during a 100-year design storm has a stormwater runoff rate of 34.56 cubic feet per second, while the pre-construction watershed for the same 100-year design storm has a stormwater runoff rate of 27.89 cubic feet per second. As the post-construction runoff rate exceeds the pre-construction runoff rate, stormwater detention is required for the project. In order to determine the requisite volume of storm water detention, the post-construction flowrate hydrograph was analyzed while maintaining the pre-construction flowrate. See the results in the hydrograph below:

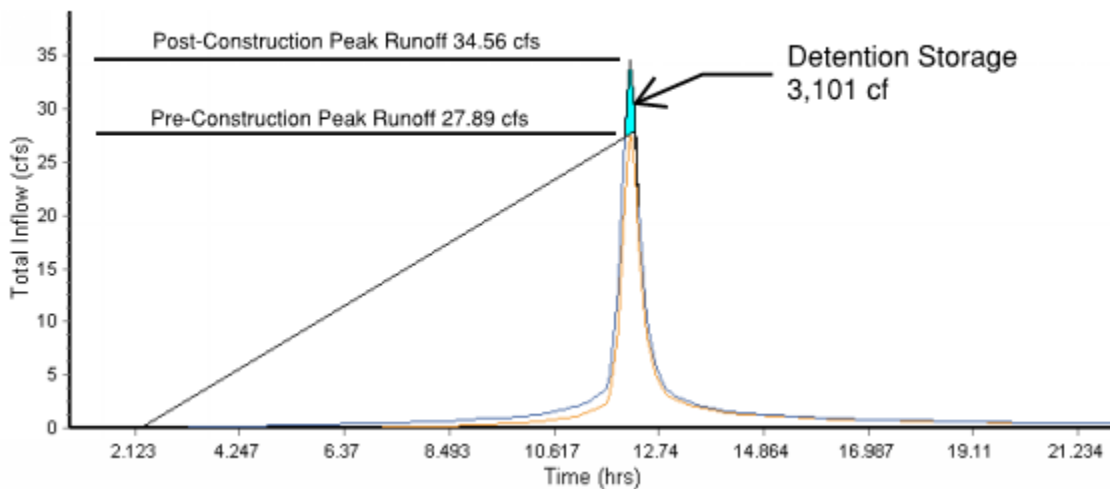


Figure 3: Requisite Stormwater Detention Storage, 100-Year Design Storm

Based on the differential analysis of the pre-construction and post-construction hydrographs for the 100-year design storm, the total volume of stormwater detention on-site to maintain pre-construction flows is 3,101 cubic feet.

Due to BASMAA standards the project is required to provide Bioretention for the additional impervious area on the site. BKF Engineers is proposing to use the drain rock within the Bioretention ponds as detention to satisfy the requisite for stormwater detention storage. Overall the project proposes to install 8,235 SF of Bioretention facilities, using a 12" deep section of drain rock with a porosity of 40% below the perforated pipe within the facilities we are providing 3,294 cubic feet of detention. The proposed Bioretention facilities will adequately detain the necessary 3,101 cubic feet of runoff determined from the 100-year design storm analysis performed.

By utilizing the drainage solutions and stormwater detention measures as outlined in this analysis, the proposed project will meet stormwater requirements. Should you have any questions, or would like additional clarification on any aspect of this Memorandum, please feel free to contact us accordingly.

Sincerely,
BKF Engineers

PRELIMINARY

Bryan Jackson, PE
Project Engineer

APPENDIX A

Storm Drain Pipe Sizing



Stormwater Requirements Checklist

Municipal Regional Stormwater Permit (MRP 2.0)
Stormwater Controls for Development Projects

CITY OF HAYWARD PUBLIC WORKS-E&T

777 B STREET, SECOND FLOOR

HAYWARD, CA 94541

(510) 583-4730 FAX: (510) 583-3620

Website: www.hayward-ca.gov

I. Applicability of C.3 and C.6 Stormwater Requirements

I.A. Enter Project Data (For "C.3 Regulated Projects," data will be reported in the municipality's stormwater Annual Report.)

I.A.1 Project Name: HAYWARD FIRE STATION #6 & REGIONAL ARFF FIRE TRAINING CENTER

I.A.2 Project Address (include cross street): 1401 W. WINTON AVE, HAYWARD, CA 94545 (SAKLAN RD)

I.A.3 Project APN: 432-0124-001-04 I.A.4 Project Watershed¹: HAYWARD LANDING

I.A.5 Applicant Name: _____ I.A.6 Date Submitted: _____

I.A.7 Applicant Address: _____

I.A.8 Applicant Phone: _____ I.A.9 Applicant Email Address: _____

I.A.10 Development type: (check all that apply)
 Residential Commercial Industrial Mixed-Use Streets, Roads, etc.
 'Redevelopment' as defined by MRP: creating, adding and/or replacing exterior existing impervious surface on a site where past development has occurred²
 'Special land use categories' as defined by MRP: (1) auto service facilities³, (2) retail gasoline outlets, (3) restaurants³, (4) uncovered parking area (stand-alone or part of a larger project)

I.A.11 Project Description⁴: New fire station and fire training center, which includes 8 buildings, roadways, parking lots, etc.
 (Also note any past or future phases of the project.)

I.A.12 Total Area of Site: 6.86 acres I.A.13 Slope on Site: _____ 3%

I.A.14 Total Area of land disturbed during construction (include clearing, grading, excavating and stockpile area: 6.86 acres.

I.B. Is the project a "C.3 Regulated Project" per MRP Provision C.3.b?

I.B.1 Enter the amount of impervious surface⁴ created and/or replaced by the project (if the total amount is 5,000 sq.ft. or more):

Table of Impervious and Pervious Surfaces

Type of Impervious Surface	a	b	C	d
	Pre-Project Impervious Surface (sq.ft.)	Existing Impervious Surface to be Replaced ⁷ (sq.ft.)	New Impervious Surface to be Created ⁷ (sq.ft.)	Post-project pervious surface (sq.ft.)
Roof area(s) – excluding any portion of the roof that is vegetated ("green roof")	16,540	16,540	16,070	N/A
Impervious ⁵ sidewalks, patios, paths, driveways	85,720	85,720	76,930	
Impervious ⁵ uncovered parking ⁶	1,300	1,300	32,660	
Streets (public)		0	0	
Streets (private)		0	0	
Totals:	103,560	103,560	125,660	69,677
Area of Existing Impervious Surface to remain in place			N/A	
Total New Impervious Surface (sum of totals for columns b and c):			229,220	

¹ Watershed is defined by the maps from the Alameda County Flood Control District at <http://acffloodcontrol.org/resources/explore-watersheds>

² Roadway projects that replace existing impervious surface are subject to C.3 requirements only if one or more lanes of travel are added.

³ Standard Industrial Classification (SIC) codes are in Section 2.3 of the C.3 Technical Guidance (download at www.cleanwaterprogram.org)

⁴ Project description examples: 5-story office building, industrial warehouse, residential with five 4-story buildings for 200 condominiums, etc.

⁵ Per the MRP, pavement that meets the following definition of pervious pavement is NOT an impervious surface. Pervious pavement is defined as pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding unpaved, landscaped areas, or that stores and infiltrates the rainfall runoff volume described in Provision C.3.d.

⁶ Uncovered parking includes top level of a parking structure.

⁷ "Replace" means to install new impervious surface where existing impervious surface is removed. "Create" means to install new impervious surface where there is currently no impervious surface.

I.B. Is the project a “C.3 Regulated Project” per MRP 2.0 Provision C.3.b? (continued)

	Yes	No	NA
I.B.2 In Item I.B.1, does the Total New Impervious Surface equal 10,000 sq.ft. or more? <i>If YES, skip to Item I.B.5 and check “Yes.” If NO, continue to Item I.B.3.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I.B.3 Does the Item I.B.1 Total New Impervious Surface equal 5,000 sq.ft. or more, but less than 10,000 sq.ft.? <i>If YES, continue to Item I.B.4. If NO, skip to Item I.B.5 and check “No.”</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I.B.4 Is the project a “Special Land Use Category” per Item I.A.10? For uncovered parking, check YES only if there is 5,000 sq.ft or more uncovered parking. <i>If NO, go to Item I.B.5 and check “No.” If YES, go to Item I.B.5 and check “Yes.”</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I.B.5 Is the project a C.3 Regulated Project? <i>If YES, go to Item I.B.6; if NO, continue to Item I.C.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I.B.6 Does the total amount of Replaced impervious surface equal 50 percent or more of the Pre-Project Impervious Surface? <i>If YES, stormwater treatment requirements apply to the whole site; if NO, these requirements apply only to the impervious surface created and/or replaced.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I.B.7 Is the project installing a total of 3,000 sq.ft. or more (excluding private-use patios in single family homes, townhomes, or condominiums) of new pervious pavement systems? (Pervious pavement systems include pervious concrete, pervious asphalt, pervious pavers and grid pavers etc. and are described in the C3 Technical Guidance at www.cleanwaterprogram.org) If YES, stormwater treatment system inspection requirements (C.3.h) apply; (Municipal staff – add this site to your list of sites needing a final inspection at the end of construction and on-going O&M inspections.) If NO, inspection requirements only apply if there are other treatment systems installed on the project.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I.C. Projects that are NOT C.3 Regulated Projects

If you answered NO to Item I.B.5, or the project creates/replaces less than 5,000 sq. ft. of impervious surface, then the project is NOT a C.3 Regulated Project, and stormwater treatment is not required, BUT the municipality may determine that source controls and site design measures are required. Skip to Section II.

I.D. Projects that ARE C.3 Regulated Projects

If you answered YES to Item I.B.5, then the project is a C.3 Regulated Project. The project must include appropriate site design measures and source controls AND hydraulically-sized stormwater treatment measures. Hydromodification management may also be required; refer to Section II to make this determination. If final discretionary approval was granted on or after **DECEMBER 1, 2011**, Low Impact Development (LID) requirements apply, except for “Special Projects.” See Section II.

I.E. Identify C.6 Construction-Phase Stormwater Requirements

	Yes	No
I.E.1 Does the project disturb 1.0 acre (43,560 sq.ft.) or more of land? (See Item I.A.14). <i>If Yes, obtain coverage under the state’s Construction General Permit at https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp. Submit to the municipality a copy of your Notice of Intent and Storm Water Pollution Prevention Plan (SWPPP) before a grading or building permit is issued.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I.E.2 Is the site a “High Priority Site” that disturbs less than 1.0 acre (43,560 sq.ft.) of land? (Municipal staff will make the final determination.) “High Priority Sites” are sites having any of the following criteria: <ul style="list-style-type: none"> ▪ that require a grading permit, ▪ are adjacent to a creek, ▪ or are otherwise high priority for stormwater protection during construction (see MRP 2.0 Provision C.6.e.ii.(2)(c)) 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I.E.3 Is the site a “Hillside Site” that disturbs 5,000 sq.ft. or more, but less than 1.0 acre (43,560 sq.ft.) of land? (Municipal staff will make the final determination.) <ul style="list-style-type: none"> ▪ “Hillside Sites” are located on hillsides, as indicated on a jurisdictional map of hillside development areas or as indicated by meeting jurisdictional hillside development criteria. ▪ If no map or criteria exist, then Hillside Sites are sites with a slope of 15% or more (see I.A.13 above and MRP 2.0 Provision C.6.e.ii.(2)(b)). 	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- NOTE TO APPLICANT: All projects require appropriate stormwater best management practices (BMPs) during construction. Refer to the Section II to identify appropriate construction BMPs.
- NOTE TO MUNICIPAL STAFF: If the answer is “Yes” to I.E.1, I.E.2, OR I.E.3, refer this project to construction site inspection staff to be added to their list of projects that require stormwater inspections at least monthly during the wet season (October 1 through April 30) and other times of the year as appropriate.

II. Implementation of Stormwater Requirements

II.A. Complete the appropriate sections for the project. For non-C.3 Regulated Projects, Sections II.B, II.C, and II.D apply. For C.3 Regulated Projects, all sections of Section II apply.

II.B. Select Appropriate Site Design Measures

- *Required for C.3 Regulated Projects.*
- *Starting December 1, 2012, projects that create and/or replace 2,500 - 10,000 sq.ft. of impervious surface, and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface, must include one of Site Design Measures a through f.⁸*
- *All other projects are encouraged to implement site design measures, which may be required at municipality discretion.*
- *Consult with municipal staff about requirements for your project.*

II.B.1 Is the site design measure included in the project plans?

Yes	No	Plan Sheet No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Direct roof runoff into cisterns or rain barrels and use rainwater for irrigation or other non-potable use.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. Direct roof runoff onto vegetated areas.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. Direct runoff from driveways and/or uncovered parking lots onto vegetated areas.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	e. Construct sidewalks, walkways, and/or patios with pervious surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) or for small projects see the BASMAA Pervious Paving Factsheet. For these documents and others go to www.cleanwaterprogram.org and click on "Resources."
<input checked="" type="checkbox"/>	<input type="checkbox"/>	f. Construct bike lanes, driveways, and/or uncovered parking lots with pervious surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) or for small projects see the BASMAA Pervious Paving Factsheet. For these documents and others go to the program website at: www.cleanwaterprogram.org and click on "Resources."
<input checked="" type="checkbox"/>	<input type="checkbox"/>	g. Minimize land disturbance and impervious surface (especially parking lots).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	h. Maximize permeability by clustering development and preserving open space.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. Use micro-detention, including distributed landscape-based detention.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	j. Protect sensitive areas, including wetland and riparian areas, and minimize changes to the natural topography.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	k. Self-treating area (see Section 4.1 of the C.3 Technical Guidance)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	l. Self-retaining area (see Section 4.2 of the C.3 Technical Guidance)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	m. Plant or preserve interceptor trees (Section 4.5, C.3 Technical Guidance)

⁸ See MRP Provision C.3.a.i(6) for non-C.3 Regulated Projects, C.3.c.i(2)(a) for Regulated Projects, C.3.i for projects that create/replace 2,500 to 10,000 sq.ft. of impervious surface and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface.

II.C. Select appropriate source controls (Applies to C.3 Regulated Projects; encouraged for other projects. Consult municipal staff.⁹)

Are these features in project?		Features that require source control measures	Source control measures (Refer to Local Source Control List for detailed requirements)	Is source control measure included in project plans?		
Yes	No			Yes	No	Plan Sheet No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Storm Drain	Mark on-site inlets with the words "No Dumping! Flows to Bay" or equivalent.	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floor Drains	Plumb interior floor drains to sanitary sewer ¹⁰ [or prohibit].	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Parking garage	Plumb interior parking garage floor drains to sanitary sewer. ⁹	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landscaping	<ul style="list-style-type: none"> ▪ Retain existing vegetation as practicable. ▪ Select diverse species appropriate to the site. Include plants that are pest- and/or disease-resistant, drought-tolerant, and/or attract beneficial insects. ▪ Minimize use of pesticides and quick-release fertilizers. ▪ Use efficient irrigation system; design to minimize runoff. 	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pool/Spa/Fountain	Provide connection to the sanitary sewer to facilitate draining. ⁹	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Food Service Equipment (non-residential)	Provide sink or other area for equipment cleaning, which is: <ul style="list-style-type: none"> ▪ Connected to a grease interceptor prior to sanitary sewer discharge.⁹ ▪ Large enough for the largest mat or piece of equipment to be cleaned. ▪ Indoors or in an outdoor roofed area designed to prevent stormwater run-on and run-off, and signed to require equipment washing in this area. 	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Refuse Areas	<ul style="list-style-type: none"> ▪ Provide a roofed and enclosed area for dumpsters, recycling containers, etc., designed to prevent stormwater run-on and runoff. ▪ Connect any drains in or beneath dumpsters, compactors, and tallow bin areas serving food service facilities to the sanitary sewer.⁹ 	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Outdoor Process Activities ¹¹	Perform process activities either indoors or in roofed outdoor area, designed to prevent stormwater run-on and runoff, and to drain to the sanitary sewer. ⁹	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Outdoor Equipment/Materials Storage	<ul style="list-style-type: none"> ▪ Cover the area or design to avoid pollutant contact with stormwater runoff. ▪ Locate area only on paved and contained areas. ▪ Roof storage areas that will contain non-hazardous liquids, drain to sanitary sewer⁹, and contain by berms or similar. 	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vehicle/Equipment Cleaning	<ul style="list-style-type: none"> ▪ Roofed, pave and berm wash area to prevent stormwater run-on and runoff, plumb to the sanitary sewer⁹, and sign as a designated wash area. ▪ Commercial car wash facilities shall discharge to the sanitary sewer.⁹ 	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vehicle/Equipment Repair and Maintenance	<ul style="list-style-type: none"> ▪ Designate repair/maintenance area indoors, or an outdoors area designed to prevent stormwater run-on and runoff and provide secondary containment. Do not install drains in the secondary containment areas. ▪ No floor drains unless pretreated prior to discharge to the sanitary sewer.⁹ ▪ Connect containers or sinks used for parts cleaning to the sanitary sewer.⁹ 	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fuel Dispensing Areas	<ul style="list-style-type: none"> ▪ Fueling areas shall have impermeable surface that is a) minimally graded to prevent ponding and b) separated from the rest of the site by a grade break. ▪ Canopy shall extend at least 10 ft in each direction from each pump and drain away from fueling area. 	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Loading Docks	<ul style="list-style-type: none"> ▪ Cover and/or grade to minimize run-on to and runoff from the loading area. ▪ Position downspouts to direct stormwater away from the loading area. ▪ Drain water from loading dock areas to the sanitary sewer.⁹ ▪ Install door skirts between the trailers and the building. 	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fire Sprinklers	Design for discharge of fire sprinkler test water to landscape or sanitary sewer. ⁹	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Miscellaneous Drain or Wash Water	<ul style="list-style-type: none"> ▪ Drain condensate of air conditioning units to landscaping. Large air conditioning units may connect to the sanitary sewer.⁹ ▪ Roof drains shall drain to unpaved area where practicable. ▪ Drain boiler drain lines, roof top equipment, all washwater to sanitary sewer⁹. 	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Architectural Copper	Discharge rinse water to sanitary sewer ⁹ , or collect and dispose properly offsite. See flyer "Requirements for Architectural Copper."	<input type="checkbox"/>	<input type="checkbox"/>	

⁹ See MRP Provision C.3.a.i(7) for non-C.3 Regulated Projects and Provision C.3.c.i(1) for C.3 Regulated Projects.

¹⁰ Any connection to the sanitary sewer system is subject to sanitary district approval.

¹¹ Businesses that may have outdoor process activities/equipment include machine shops, auto repair, industries with pretreatment facilities.

II.D. Implement Construction Best Management Practices (BMPs) (Applies to all projects – see Provision C.6 for more details.)

Yes	No	Best Management Practice (BMP)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Attach the municipality's construction BMP plan sheet to project plans and require contractor to implement the applicable BMPs on the plan sheet.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temporary erosion controls to stabilize all denuded areas until permanent erosion controls are established.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Delineate with field markers clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Provide notes, specifications, or attachments describing the following: <ul style="list-style-type: none"> ▪ Construction, operation and maintenance of erosion and sediment controls, include inspection frequency; ▪ Methods and schedule for grading, excavation, filling, clearing of vegetation, and storage and disposal of excavated or cleared material; ▪ Specifications for vegetative cover & mulch, include methods and schedules for planting and fertilization; ▪ Provisions for temporary and/or permanent irrigation.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Perform clearing and earth moving activities only during dry weather.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Use sediment controls or filtration to remove sediment when dewatering and obtain all necessary permits.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Protect all storm drain inlets in vicinity of site using sediment controls such as berms, fiber rolls, or filters.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trap sediment on-site, using BMPs such as sediment basins or traps, earthen dikes or berms, silt fences, check dams, soil blankets or mats, covers for soil stock piles, etc.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Divert on-site runoff around exposed areas; divert off-site runoff around the site (e.g., swales and dikes).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Protect adjacent properties and undisturbed areas from construction impacts using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Limit construction access routes and stabilize designated access points.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	No cleaning, fueling, or maintaining vehicles on-site, except in a designated area where washwater is contained and treated.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Store, handle, and dispose of construction materials/wastes properly to prevent contact with stormwater.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Contractor shall train and provide instruction to all employees/subcontractors re: construction BMPs.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, washwater or sediments, rinse water from architectural copper, and non-stormwater discharges to storm drains and watercourses.

PROJECTS THAT ARE NOT C.3 REGULATED PROJECTS STOP HERE!

II.E. Biotreatment, Infiltration and Rain Water Harvesting and Use.

MRP 2.0 no longer requires that a feasibility analysis of infiltration and rainwater harvesting be conducted. However, applicants using biotreatment are encouraged to maximize infiltration of stormwater if site conditions allow. If feasible and desired, infiltration and rainwater harvesting may be cost effective solutions depending on the project.

II.F. Stormwater Treatment Measures (Applies to C.3 Regulated Projects)

II.F.1 Check the applicable box and indicate the treatment measures to be included in the project.

Yes	No											
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>Is the project a Special Project? (See Appendix K of the C.3 Technical Guidance for criteria.)</p> <p>If Yes, complete the Special Projects Worksheet (go to the program website at: www.cleanwaterprogram.org and click on "Resources") and consult with municipal staff about the need to prepare a discussion of the feasibility and infeasibility of 100% LID treatment. Indicate the type of non-LID treatment to be used, the hydraulic sizing method*, and percentage of the amount of runoff specified in Provision C.3.d that is treated:</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Non-LID Treatment</u></td> <td style="text-align: center;"><u>Hydraulic sizing method*</u></td> <td style="text-align: center;"><u>% of C.3.d amount of runoff treated</u></td> </tr> <tr> <td><input type="checkbox"/> Media filter</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Tree well filter</td> <td></td> <td></td> </tr> </table>	<u>Non-LID Treatment</u>	<u>Hydraulic sizing method*</u>	<u>% of C.3.d amount of runoff treated</u>	<input type="checkbox"/> Media filter			<input type="checkbox"/> Tree well filter			
<u>Non-LID Treatment</u>	<u>Hydraulic sizing method*</u>	<u>% of C.3.d amount of runoff treated</u>										
<input type="checkbox"/> Media filter												
<input type="checkbox"/> Tree well filter												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Is the project using biotreatment to treat the C.3.d amount of runoff?</p> <p>For more information on infiltration and rainwater harvesting and use of stormwater, refer to the C3 Technical Guidance downloadable at the program website: www.cleanwaterprogram.org</p> <p>If Yes, indicate the biotreatment measures to be used, and the hydraulic sizing method:</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Biotreatment Measures</u></td> <td style="text-align: center;"><u>Hydraulic sizing method*</u></td> </tr> <tr> <td><input checked="" type="checkbox"/> Bioretention area</td> <td style="text-align: center;">Combination Hydraulic Sizing</td> </tr> <tr> <td><input type="checkbox"/> Flow-through planter</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (specify):</td> <td></td> </tr> </table>	<u>Biotreatment Measures</u>	<u>Hydraulic sizing method*</u>	<input checked="" type="checkbox"/> Bioretention area	Combination Hydraulic Sizing	<input type="checkbox"/> Flow-through planter		<input type="checkbox"/> Other (specify):			
<u>Biotreatment Measures</u>	<u>Hydraulic sizing method*</u>											
<input checked="" type="checkbox"/> Bioretention area	Combination Hydraulic Sizing											
<input type="checkbox"/> Flow-through planter												
<input type="checkbox"/> Other (specify):												
<input type="checkbox"/>	<input type="checkbox"/>	<p>Is the project using infiltration or rainwater harvesting/use?</p> <p>For more information on infiltration and rainwater harvesting and use of stormwater, refer to the C3 Technical Guidance downloadable at the program website: www.cleanwaterprogram.org</p> <p>If Yes, indicate the measures to be used, and hydraulic sizing method:</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>LID Treatment Measure (non-biotreatment)</u></td> <td style="text-align: center;"><u>Hydraulic sizing method*</u></td> </tr> <tr> <td><input type="checkbox"/> Rainwater harvesting and use</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Bioinfiltration¹²</td> <td style="text-align: center;">Combination Hydraulic Sizing</td> </tr> <tr> <td><input type="checkbox"/> Infiltration trench</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (specify):</td> <td></td> </tr> </table>	<u>LID Treatment Measure (non-biotreatment)</u>	<u>Hydraulic sizing method*</u>	<input type="checkbox"/> Rainwater harvesting and use		<input checked="" type="checkbox"/> Bioinfiltration ¹²	Combination Hydraulic Sizing	<input type="checkbox"/> Infiltration trench		<input type="checkbox"/> Other (specify):	
<u>LID Treatment Measure (non-biotreatment)</u>	<u>Hydraulic sizing method*</u>											
<input type="checkbox"/> Rainwater harvesting and use												
<input checked="" type="checkbox"/> Bioinfiltration ¹²	Combination Hydraulic Sizing											
<input type="checkbox"/> Infiltration trench												
<input type="checkbox"/> Other (specify):												

***Hydraulic Sizing Method:** Indicate which of the following Provision C.3.d.i hydraulic sizing methods were used:

1. Volume based approaches – Refer to Provision C.3.d.i.(1):
 - 1(a) Urban Runoff Quality Management approach, or
 - 1(b) 80% capture approach (recommended volume-based approach).
2. Flow-based approaches – Refer to Provision C.3.d.i.(2):
 - 2(a) 10% of 50-year peak flow approach,
 - 2(b) Percentile rainfall intensity approach, or
 - 2(c) 0.2-Inch-per-hour intensity approach (this is recommended flow-based approach AND the basis for the 4% rule of thumb described in Section 5.1 of the C.3 Technical Guidance).
3. Combination hydraulic sizing approach -- Refer to Provision C.3.d.i.(3):

If a combination flow and volume design basis was used, indicate which flow-based and volume-based criteria were used.

¹² See Section 6.1 of the C.3 Technical Guidance for conditions in which bioretention areas provide bioinfiltration.

II.G. Is the project a Hydromodification Management¹³ (HM) Project? (Complete this section for C.3 Regulated Projects)

- II.G.1 Does the project create and/or replace 1 acre (43,560 sq. ft.) or more of impervious surface? (Refer to Item I.B.1.)
 - Yes. *Continue to Item II.G.2.*
 - No. *The project is NOT required to incorporate HM measures. Skip to Item II.G.6 and check "No."*

- II.G.2 Is the total impervious area increased over the pre-project condition? (Refer to Item I.B.1.)
 - Yes. *Continue to Item II.G.3.*
 - No. *The project is NOT required to incorporate HM measures. Skip to Item II.G.6 and check "No."*

- II.G.3 Is the site located in a tidally influenced/depositional area, or in the extreme eastern portion of the county that is not subject to HM requirements? (See HMP Susceptibility Map in Appendix I of the C.3 Technical Guidance.)
 - Yes. *Project is exempt from HM requirements. Attach map indicating project location. Skip to II.G.6 and check "No."*
 - No. *Continue to II.G.4.*

- II.G.4 Is the site located in a high slope zone or special consideration watershed, as shown on the HMP Susceptibility Map?
 - Yes. *Project is subject to HM requirements. Attach map indicating project location. Skip to II.G.6 and check "Yes."*
 - No. *Continue to II.G.5.*

- II.G.5 For sites located in a white area on the HMP Susceptibility Map, has an engineer or qualified environmental professional determined that runoff from the project flows only through a hardened channel or enclosed pipe along its entire length before emptying into a waterway in the exempt area?
 - Yes. *Project is exempt from HM requirements. Attach signed statement by qualified professional. Go to II.G.6 and check "No."*
 - No. *Project is subject to HM requirements. Attach map indicating project location. Go to Item G.6 and check "Yes."*

- II.G.6 Is the project a Hydromodification Management Project?
 - Yes. *The project is subject to HM requirements in Provision C.3.g of the Municipal Regional Stormwater Permit.*
 - No. *The project is EXEMPT from HM requirements.*
 - HM requirements are impracticable. (Attach documentation needed to comply with the impracticability provision in MRP Attachment B.)

➤ *If the project is subject to the HM requirements, incorporate in the project flow duration stormwater control measures designed such that post-project stormwater discharge rates and durations match pre-project discharge rates and durations. The Bay Area Hydrology Model (BAHM) has been developed to size flow duration controls. See www.bayareahydrologymodel.org. Guidance is provided in Chapter 7 of the C.3 Technical Guidance.*

II.H Stormwater Treatment Measure and/HM Control Owner or Operator's Information:

Name: _____

Address: _____

Phone: _____ Email: _____

- *Applicant must call for inspection and receive inspection within 45 days of installation of treatment measures and/or hydromodification management controls.*

Name of applicant completing the form: _____

Signature: _____ Date: _____

¹³ Hydromodification is the modification of a stream's hydrograph, caused in general by increases in flows and durations that result when land is developed (made more impervious). The effects of hydromodification include, but are not limited to, increased bed and bank erosion, loss of habitat, increased sediment transport and deposition, and increased flooding. Hydromodification management control measures are designed to reduce these effects.

III. For Completion By Municipal Staff

III.1 Alternative Certification: Was the treatment system sizing and design reviewed by a qualified third-party professional that is not a member of the project team or agency staff?

Yes No Name of Reviewer _____

III.2. Confirm Operations and Maintenance (O&M) Submittal:

The following questions apply to C.3 Regulated Projects and Hydromodification Management Projects.

	Yes	No	N/A
III.2.a Was maintenance plan submitted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
III.2.b Was maintenance plan approved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
III.2.c Was maintenance agreement submitted? (Date executed: _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

➤ *Attach the executed maintenance agreement as an appendix to this checklist.*

III.3 Incorporate HM Controls (if required)

Are the applicable items for HM compliance included in the plan submittal?

Yes	No	NA	Documentation for HM Compliance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site plans with pre- and post-project impervious surface areas, surface flow directions of entire site, locations of flow duration controls and site design measures per HM site design requirement
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soils report or other site-specific document showing soil types at all parts of site
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves), goodness of fit, and (allowable) low flow rate.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If project uses the Impracticability Provision, a listing of all applicable costs and a brief description of the alternative HM project (name, location, date of start up, entity responsible for maintenance).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If the project uses alternatives to the default BAHM approach or settings, a written description and rationale.

➤ *Municipal staff: Refer to the "Flow Duration Control Review Worksheet for HM Submittals" to review the documentation submitted for HM compliance.*

III.4 Annual Operations and Maintenance (O&M) Submittals:

For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitted annual reports for project O&M: _____

III.5 Comments:

III.6 Notes:

Section I Notes: _____
 Section II Notes: _____
 Section III Notes: _____

III.7 Project Close-Out:

III.7.a Were final Conditions of Approval met?

Stormwater Requirements Checklist

- | | | | | |
|---------|--|--------------------------|--------------------------|--------------------------|
| III.7.b | Was initial inspection of the completed treatment/HM measure(s) conducted?
(Date of inspection:_____) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| III.7.c | Was maintenance plan submitted?
(Date executed:_____) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| III.7.d | Was project information provided to staff responsible for O&M verification inspections?
(Date provided to inspection staff:_____) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Name of staff confirming project is closed out:_____

Signature:_____ Date:_____

Name of O&M staff receiving information:_____

Signature:_____ Date:_____

Appendices

Appendix A: O&M Agreement

Appendix B: O&M Annual Report Form

MEMO

TO: Edwin Wilson, AIA, CSI (RDC)
FROM: Albert Dwan, INCE (WSP)
SUBJECT: **Hayward Fire Training Center: Exterior Aircraft Noise Assessment**
DATE: **December 1, 2017**

Edwin:

WSP conducted acoustical measurements at the site of the proposed Hayward Fire Training Center on March 30th, 2017, in order to document the noise levels produced by typical operations from the adjacent Hayward Executive Airport. These measurements were conducted in order to provide a reference point regarding exterior noise control strategies at the Covered Break Area, as well as sensitive spaces in Building 1.

The following equipment was utilized during the measurement process:

- Handheld Audio and Acoustic Analyzer: Manufactured by NTi-Audio, model XL2
- Class 2 Precision Measurement Microphone: Manufactured by NTi-Audio, model M4260

The acoustic analyzer and associated microphone were calibrated on-site prior to the measurements. Acoustic data was collected at a total of four (4) locations on the proposed training campus site – all of which were strategically selected to provide averaged data across the proposed campus.

The table below documents the results of these measurements. Data shown reflect sound levels averaged across all measurement locations, under each of the conditions listed.



Table 1 - Exterior Acoustic Measurement Results

SOUND SOURCE	MEASURED DBA	EQUIVALENT NC
General Background Noise – Including Road Traffic	52	49
Single Propeller Plane - Takeoff	60	55
Single Propeller Plane – Flyover	56	54
Single Propeller Plane - Landing	58	58
Dual Engine Jet – Landing / Takeoff	59	57
Dual Engine Jet – Taxi	58	57
Helicopter – Flyover	62	57
Helicopter – Landing	58	54
Fire Engine on Training Campus	58	54

As shown in Table 1, typical ambient background noise levels without any aircraft activity at the Hayward Executive Airport are approximately 52 dBA. This baseline noise level increases anywhere from +4 dBA to +10 dBA under the conditions which were measured – with the highest noise levels being associated with the diesel engine of the single-propeller plane and helicopter flyovers.

The high ambient noise levels are primarily due to vehicular traffic at West Winton Avenue to the south. An increase in background sound levels of +10 dBA are generally perceived as a doubling of loudness level, which means that the ambient noise level will be perceived as “twice as loud” in the event of a helicopter flyover or single-propeller plane takeoff.

While sound levels will already be elevated due to traffic noise at West Winton Avenue, a doubling of background noise will be disruptive to instruction and conversation. For this reason, the programmatic designation as a Covered Break Area is appropriate, and is recommended to be maintained as such.

It should be noted that the measured noise levels listed in Table 1 will not reach the minimum 65 CNEL level identified under the 2016 California Green Building Code (CalGreen) section 5.507. Therefore, the noise produced by operations at Hayward Executive Airport will not require compliance with the envelope acoustic performance requirements listed in this code.

Double-panel Insulated Glazing Unit (IGU) assemblies should be used at all skylights and clerestories in Building 1, in order to reduce the risk of noise ingress into classrooms and conference rooms. WSP has reviewed the current selection of glass thickness and glazing, and confirms that the current selections are appropriate and should be maintained as a minimum assembly.

Thank you,
Albert Dwan, INCE
Associate



March 8, 2018

Randy Yonemura, Cultural Committee Chair
Ione Band of Miwok Indians
P.O. Box 699
9252 Bush Street, Suite 2
Plymouth, CA 95669

SUBJECT: ASSEMBLY BILL 52 CONSULTATION OUTREACH FOR THE CITY OF HAYWARD FIRE STATION #6 AND FIRE TRAINING CENTER, HAYWARD, ALAMEDA COUNTY, CALIFORNIA

Dear Mr. Yonemura,

The City of Hayward (“City”), proposes a Capital Improvement Project to construct a new Fire Station #6 and Regional Airport Rescue and Firefighting Facility (ARFF) and Hazardous Materials Training Center located at 1401 West Winton Avenue, City of Hayward, Alameda County, California (Figures 1 and 2.). Because the project qualifies as a “project” under the California Environmental Quality Act (CEQA) and Assembly Bill 52 (AB 52), the Lead Agency must consult with tribal groups about potential disturbance to cultural resources that may be of concern to those groups. The purpose of the consultation is to identify and consider potential impacts to a new category of resources called Tribal Cultural Resources (TCRs), and take into account tribal cultural values (in addition to scientific and archaeological values) when identifying possible impacts and mitigation. An impact to a TCR may result in a significant impact under CEQA and require mitigation.

PROJECT DESCRIPTION

The proposed project includes a Site Plan Review application (Project No. 201703717 SPR) for the construction of the Hayward Fire Station #6 and Regional Airport Rescue and Firefighting (ARFF) and Hazardous Materials Training Center located at the Hayward Executive Airport. The proposed project will include the demolition of the four (4) existing structures and the construction of nine structures including the fire station/classroom building, apparatus building, hangar building, training tower, burn building, outdoor classroom, entry canopy, etc. totaling approximately 66,278 square-feet of building area. The project will consist of Leadership in Energy and Environmental Design (LEED) Platinum Certified structures.

Development Services Department

Planning Division

777 B Street, Hayward, CA 94541

T: 510.583.4200

F: 510.583.3649

TTD: 510.247.3340

www.hayward-ca.gov



The Hayward Fire Station #6 and Regional ARFF Fire Training Center will approximately include the following services, classes, and number of students:

- Fire station responding to an average of ten (10) emergency calls daily;
- Classroom/drill ground training for 12-14 City firefighters and 1-3 instructors daily;
- Classroom/drill ground training for 15-48 City firefighters and 1-3 instructors monthly;
- Fire training academy for 6-12 cadets with 1-12 instructors of 18 weeks yearly;
- Regional fire training and symposium yearly; and
- Chabot College EMT, fire technology, fire academy classes.

CONSULTATION OPPORTUNITY

The City would like to provide you with an opportunity to communicate concerns you might have regarding places within the project site that may be important to your community. The City requests your participation in the identification and protection of TCRs, sacred lands, or other heritage sites within the above described project site with the understanding that you or other members of the community might possess specialized knowledge of the area. AB 52 provides for a 30-day response window if you would like to consult with the City on this project. If you do not respond within 30 days, consultation under AB 52 is no longer required.

If you have any questions or concerns regarding this project, please feel free to contact me at (510) 583-4236 or via email at marcus.martinez@hayward-ca.gov.

Sincerely,



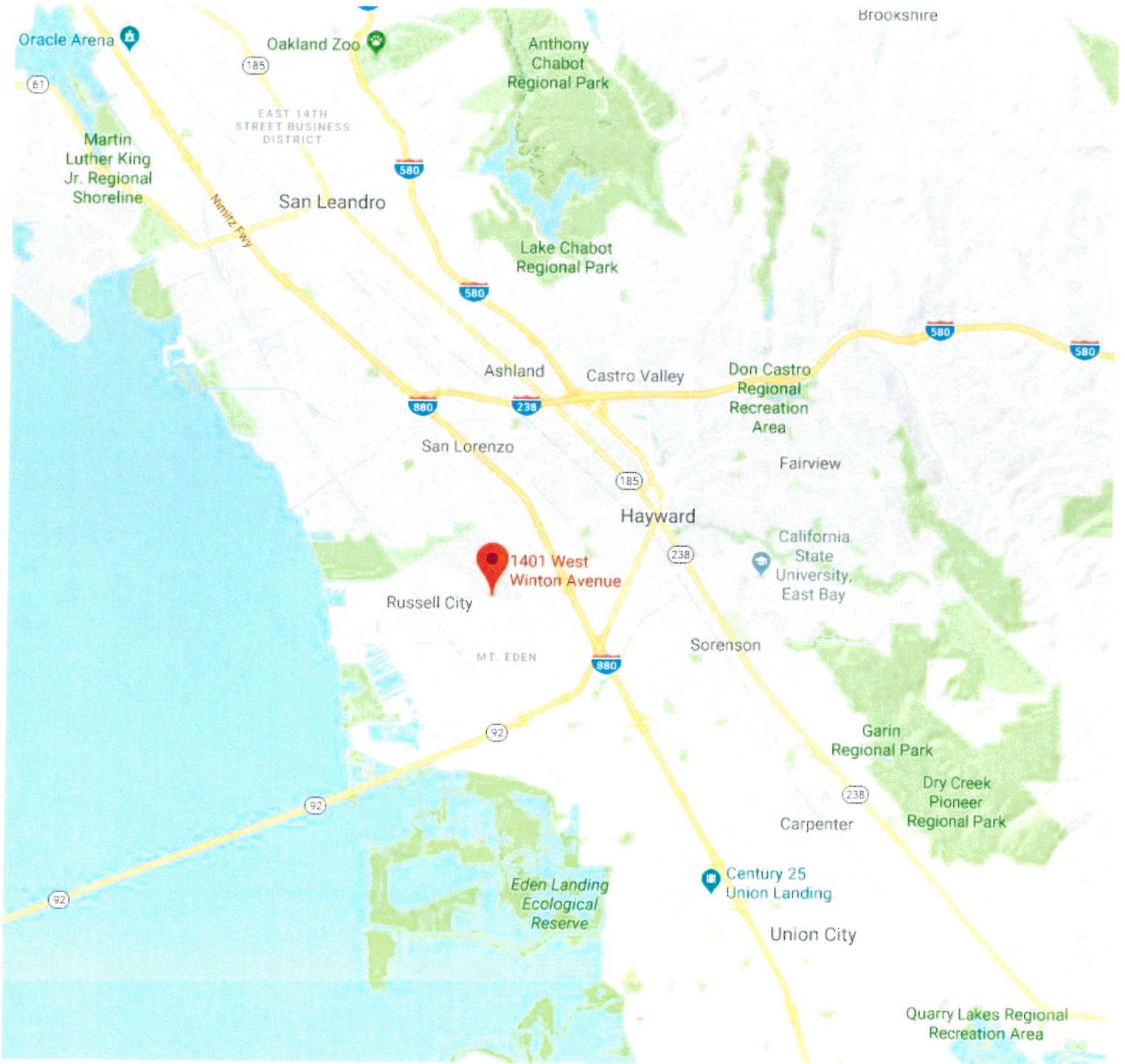
Marcus Martinez
Assistant Planner

Attachments: Figure 1: Regional Location and Project Site
Figure 2: Project Site

¹ Public Resources Code (PRC) Section 21074(a) defines Tribal Cultural Resources as either of the following:

- Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either: (1) included or determined to be eligible for inclusion in the California Register of Historical Resources; or (2) included in a local register of historical resources as defined in subdivision (k) of PRC Section 5020.1; or
- 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 PRC Section 5024.1.

FIGURE 1 – REGIONAL LOCATION AND PROJECT SITE



Development Services Department
Planning Division
777 B Street, Hayward, CA 94541

T: 510.583.4200
F: 510.583.3649

TTD: 510.247.3340
www.hayward-ca.gov



FIGURE 2 – PROJECT SITE

