

ALAMEDA COUNTY  
**HEALTH CARE SERVICES  
AGENCY**

COLLEEN CHAWA, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH  
LOCAL OVERSIGHT PROGRAM (LOP)  
For Hazardous Materials Releases  
1131 HARBOR BAY PARKWAY  
ALAMEDA, CA 94502  
(510) 567-6700  
FAX (510) 337-9335

April 20, 2018

Ms. Pennie Barger  
Apex Refrigeration Corp.  
1550 Park Avenue  
Emeryville, CA 94608  
(Sent via electronic mail to:  
[pelco1969@sbcglobal.net](mailto:pelco1969@sbcglobal.net))

Ms. Pennie Barger  
Pellegrini Refrigeration & Restaurant Equipment Co.  
1550 Park Avenue  
Emeryville, CA 94608  
(Sent via electronic mail to:  
[pelco1969@sbcglobal.net](mailto:pelco1969@sbcglobal.net))

Ms. Amanda Kobler  
1550 Park LLC  
2336 Magnolia Street, Suite 11  
Oakland, CA 94607  
(Sent via electronic mail to:  
[amanda@phasedeux.com](mailto:amanda@phasedeux.com))

Hu Justin  
Attn: Leader Picone & Young LLP  
1970 Broadway, Suite 1030  
Emeryville, CA 94608

Subject: Case Closure for Fuel Leak Case No. RO0003069 and GeoTracker Global ID T1000002519, Pellegrini Refrigeration & Restaurant Equipment Company, 1550 Park Avenue, Emeryville, CA 94608

Dear Responsible Party:

This letter transmits the enclosed Remedial Action Completion Certificate and Case Closure Summary for the subject leaking underground fuel tank case. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. This Remedial Action Completion Certificate and the case closure summary can also be viewed on the State Water Resources Control Board's GeoTracker website (<http://geotracker.waterboards.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

This site is closed with residual contamination that limit future land use to the current commercial land use as a commercial facility. Land use restrictions are described in the attached Case Closure Summary.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Dilan Roe', is written over a light blue horizontal line.

Dilan Roe, P.E.  
Chief, Land Water Division

Enclosures: 1. Remedial Action Completion Certification  
2. Case Closure Summary

cc w/enc.: Michael Lamphere, Lamphere Law Offices, 900 Larkspur Landing Circle, Suite 179; Larkspur, CA 94939, (Sent via electronic mail to [MLamphere@lampherelaw.com](mailto:MLamphere@lampherelaw.com))

Erik Oehlschlager, Engineering / Remediation Resources Group, Inc, 4585 Pacheco Blvd, Suite 200, Martinez, CA 94553; (Sent via electronic mail to [erik.oehlschlager@errg.com](mailto:erik.oehlschlager@errg.com))

Nick Patz, Adanta, Inc, 1801 Oak Street, Suite 100, Napa, CA 94559; (Sent via electronic mail to: [nick.patz@adanta-inc.com](mailto:nick.patz@adanta-inc.com))

City of Emeryville, Public Works Department, 1333 Park Avenue, Emeryville CA 94608 (Sent via E-mail to: [mroberts@emeryville.org](mailto:mroberts@emeryville.org))

Dilan Roe, ACDEH, (Sent via electronic mail to: [dilan.roe@acgov.org](mailto:dilan.roe@acgov.org))

Paresh Khatri, ACDEH; (Sent via electronic mail to: [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org))

Mark Detterman, ACDEH, (Sent via electronic mail to: [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org))

Electronic File; GeoTracker

ALAMEDA COUNTY  
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DEPARTMENT OF ENVIRONMENTAL HEALTH  
LOCAL OVERSIGHT PROGRAM (LOP)  
For Hazardous Materials Releases  
1131 HARBOR BAY PARKWAY, SUITE 250  
ALAMEDA, CA 94502  
(510) 567-6700  
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**REMEDIAL ACTION COMPLETION CERTIFICATION**

April 20, 2018

Ms. Pennie Barger  
Apex Refrigeration Corp.  
1550 Park Avenue  
Emeryville, CA 94608  
(Sent via electronic mail to:  
[pelco1969@sbcglobal.net](mailto:pelco1969@sbcglobal.net))

Ms. Pennie Barger  
Pellegrini Refrigeration & Restaurant Equipment Co.  
1550 Park Avenue  
Emeryville, CA 94608  
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Ms. Amanda Kobler  
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2336 Magnolia Street, Suite 11  
Oakland, CA 94607  
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[amanda@phasedeux.com](mailto:amanda@phasedeux.com))

Hu Justin  
Attn: Leader Picone & Young LLP  
1970 Broadway, Suite 1030  
Emeryville, CA 94608

Subject: Case Closure for Fuel Leak Case RO0003069 and GeoTracker Global ID T1000002519, Pellegrini Refrigeration & Restaurant Equipment Company, 1550 Park Avenue, Emeryville, CA 94608

Dear Responsible Parties:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) 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 tank(s) 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 release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ronald Browder  
Director

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**1. CASE INFORMATION**

**A. Facility/Site Address (Case Name & Address)**

|   |  |
|---|--|
| Project Name  | Address                                |
| Pellegrini Refrigeration & Restaurant Equipment Company | 1550 Park Avenue, Emeryville, CA 94608 |

**B. Case Identification Numbers**

|   |              |
|---|--------------|
| Cleanup Oversight Agencies  | Case/ID No   |
| Alameda County Local Oversight Program (LOP) - Lead Agency        | RO0003069    |
| San Francisco Bay Regional Water Quality Control Board (Region 2) | N/A          |
| State Water Resources Control Board GeoTracker Global ID          | T10000002519 |

**C. Lead Agency Information**

|   |   |                            |
|---|---|----------------------------|
| Agency Name:  | Agency Address:                                 | Agency Phone:              |
| Alameda County Department of Environmental Health (ACDEH) | 1131 Harbor Bay Parkway, Alameda, CA 94502-6577 | (510) 567-6700             |
| Case Worker:  | LOP Supervisor:                                 | Land Water Division Chief: |
| Mark Detterman, PG 4799, CEG 1788                         | Paresh Khatri                                   | Dilan Roe, PE C73703       |

**D. Responsible Party Information**

|  |   |
|--|---|
| Responsible Party(ies):  | Address:  |
| Hu Justin<br>Attn: Leader Picone & Young LLP                                     | 1970 Broadway, St 1030<br>Emeryville, CA 94608      |
| Pellegrini Refrigeration & Restaurant Equipment Company<br>c/o Ms. Pennie Barger | 1550 Park Avenue<br>Emeryville, CA 94608            |
| Apex Refrigeration Corporation<br>c/o Ms. Pennie Barger                          | 1550 Park Avenue<br>Emeryville, CA 94608            |
| 1550 Park LLC<br>c/o Amanda Kobler   | 2336 Magnolia Street, Suite 11<br>Oakland, CA 94607 |

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**2. PROPERTY INFORMATION**

**A. Assessor Parcel Numbers (APNs)**

|          |           |
|----------|-----------|
| Current  | 49-1036-1 |
| Historic | 49-1036-3 |

**B. Alternate Addresses**

|     |
|-----|
| N/A |
|-----|

**C. Identified Historic Land Use & Operations**

| Type                    | Description  |
|-------------------------|--|
| Various commercial uses | Historically the Property has been in various commercial uses, such as a oxygen supply company, furniture manufacturing company, and most recently a refrigeration supply company. |

**D. Environmental Cases Associated with Property**

| Case Type                 | Lead Oversight Agency | Site ID                 | Potential Contaminants of Concern                               | Status (Open/Closed) |
|---------------------------|-----------------------|-------------------------|---|----------------------|
| LUST <sup>1</sup>         | ACDEH                 | T10000002519; RO0003069 | TPHd, TPHg, TPHmo, PAHs   | 2009 / 2018          |
| LUST <sup>1</sup>         | ACDEH                 | T0600101953; RO0000647  | TPHg, BTEX, Lead  | 1994 / 1996          |
| SCP                       | ACDEH                 | T1000009222 / RO0003215 | Contaminants associated with on-site and off-site historic land | 2017/Inactive        |
| Other <sup>2</sup>        | DTSC                  | N/A                     | N/A   | N/A                  |
| Other <sup>3</sup>        | EPA                   | N/A                     | N/A   | N/A                  |
| Post-Closure <sup>1</sup> | N/A                   | N/A                     | N/A   | N/A                  |

<sup>1</sup> Refer to the State Water Resources Control Board's GeoTracker database for case information: <https://geotracker.waterboards.ca.gov>

<sup>2</sup> Refer to the California Department of Toxics Substances Control Board's (DTSC) Envirostor database for case information: [http://www.dtsc.ca.gov/sitecleanup/cleanup\\_sites\\_index.cfm](http://www.dtsc.ca.gov/sitecleanup/cleanup_sites_index.cfm)

<sup>3</sup> Refer to the United States Environmental Protection Agency's (EPA) Site Specific National Cleanup Databases for case information: <https://www.epa.gov/cleanups/site-specific-national-cleanup-databases>

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T1000002519)

**3. CASE SUMMARY**

**A. Reason Case Opened**

Fuel Leak Case No. RO0003069 was opened in 2011 by ACDEH when a 1,000-gallon heating oil underground storage tank (UST) was discovered in the sidewalk adjacent to the building located at 1550 Park Avenue in Emeryville, California during a City of Emeryville street improvement project along Park Avenue. The case was opened to evaluate potential impacts to human health and the environment from an unauthorized release from the heating oil UST. Other potential chemicals of concern at the site associated with historic land uses including a release from a 1,500-gallon gasoline UST that was removed from the site in 1994 were not evaluated as part of this case.

**B. Known UST Systems at the Site**

| UST System Component | Size / Quantity | Material Stored                 | Status  | URF Filing Date: |
|----------------------|-----------------|---------------------------------|---------|------------------|
| UST                  | 1,000-gallon    | Heating Oil / Bunker C Fuel Oil | Removed | March 8, 2010    |
| UST                  | 1,500-gallon    | Gasoline                        | Removed | 1994             |

**C. Unauthorized Release Description**

Fuel release from the fuel oil UST.

**D. Site Investigations**

Site investigation activities were conducted to evaluate the extent of subsurface impacts to soil and groundwater from the unauthorized release from the UST system. After removal of the UST, 20 tons of contaminated soil was off-hauled to an appropriate receiving landfill. The subject investigation consisted of the installation of 12 soil bores (S1 to S11, and S13) and one groundwater monitoring well (S12 / MW-1) to delineate the lateral offsite extent of soil and groundwater contamination.

**E. Remediation**

Other than removal of soil around the former UST, no remediation was conducted.

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T1000002519)

**3. CASE SUMMARY (CONTINUED)**

**F. Constituents Evaluated & Residual Contamination Remaining at Closure**

| Material Stored/Dispensed in UST System   | Analytes  | Sampled, Residual | Media                               |                                     |                          |                          |                          |                          |                          |
|---|---|-------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|   |   |                   | S                                   | GW                                  | SW                       | SV                       | SS                       | IA                       | OA                       |
| <b>Engine Fuels</b><br><input type="checkbox"/> Gasoline Fuel<br>(1, 2, 9, 10, 11, 12, 13, 14)          | TPH-g <sup>1</sup>                                  | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Diesel Fuel<br>(2, 9, 10)  | TPH-d <sup>2</sup>                                  | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Jet Fuel<br>(1, 2, 4, 9, 10)   | TPH-mo <sup>3</sup><br>(soil only)                  | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Heating Oils</b><br><input type="checkbox"/> Kerosene<br>(2, 5, 9, 10)                               | TPH-jf <sup>4</sup>                                 | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Residential Heating Oils<br>(2, 3, 9, 10)                                      | TPH-k <sup>5</sup>                                  | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Commercial & Industrial Heating Oils<br>(1, 2, 3, 7, 9, 10, 15, 16)            | TPH-ss <sup>6</sup>                                 | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Commercial & Industrial Heating Oils<br>(1, 2, 3, 7, 9, 10, 15, 16) | TPH-bo <sup>7</sup>                                 | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Other Oils</b><br><input type="checkbox"/> Waste (Used) Oil<br>(1, 2, 3, 9, 10, 15, 16, 17, 18)      | TPH-ho <sup>8</sup>                                 | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Hydraulic Oil<br>(8, 16, 17)   | BTEX <sup>9</sup>                                   | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Dielectric Oil<br>(2, 3, 10, 16, 17)   | Naphthalene <sup>10</sup>                           | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unknown Oil<br>(1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18)                | MTBE/TBA <sup>11</sup>                              | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Solvents</b><br><input type="checkbox"/> Hydrocarbon Solvents<br>(2, 3, 6, 9, 10)                    | EDB/EDC <sup>12</sup>                               | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Organic Lead <sup>13</sup>                          | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Fuel Oxygenates <sup>14</sup><br>(DIPE, TAME, EIOC) | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | VOCs <sup>15</sup><br>(full scan)                   | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | SVOCs <sup>16</sup>                                 | Sampled           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | PCBs <sup>17</sup>                                  | Sampled           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Metals <sup>18</sup><br>(Cd, Cr, Pb, Ni, Zn)        | Sampled           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   |   | Residual          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

S = Soil, GW = Groundwater, SW = Surface Water, SV = Soil Vapor, SS = Sub-Slab Vapor, IA = Indoor Air, OA = Outdoor Air

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**4. CLOSURE SUMMARY**

**A. Low Threat Closure Policy (LTCP) Evaluation**

This UST release case has been evaluated by ACDEH for closure consistent with the State Water Resource Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants. ACDEH has determined that the site meets all the LTCP General Criteria and the Media Specific Criteria for Groundwater. The site does not meet the LTCP Media Specific Criteria for Vapor Intrusion and Outdoor Air for several reasons, including the lack of a bioattenuation zone due to shallow groundwater coupled with total petroleum hydrocarbon concentrations greater than 100 milligrams per kilogram within the 0 to 5 foot depth interval. However, petroleum volatile organic compounds, including naphthalene, in groundwater samples in the vicinity of the former UST were non-detect or detected trace concentrations and indicate that residual contamination at the site does not pose a vapor intrusion risk at the site or downgradient of the site. Additionally, the site does not meet the LTCP Media Specific Criteria for Direct Contact for unconditional use, but does for its current commercial use. However, the former UST was identified as a heating oil, or possibly a Bunker C heating oil UST. Poly-aromatic hydrocarbons (PAHs) are not required to be evaluated under the LTCP for a heating oil UST; however, are for Bunker C oil. Therefore an evaluation of PAHs was conducted due to the unknown use history of the former UST. The highest of benzo(a)pyrene toxicity equivalent (BaPe) at the site (sample S1-3.5) is 0.26 milligrams per kilogram (mg/kg) , which meets the commercial PAH criteria, but not the residential criteria. However, under the current land use scenario the exposure pathways is incomplete as the site is covered with buildings and hardscape.

Refer to Attachments 4 through 7 for detailed information on the LTCP evaluation.

**B. Well Status (Groundwater, Remediation)**

|                           |                            |
|---------------------------|----------------------------|
| No. of Wells Installed: 1 | No. of Wells Lost: N/A     |
| No. of Wells Destroyed: 1 | No. of Wells Retained: N/A |

**C. Vapor Probe Status**

|                                       |                          |
|---------------------------------------|--------------------------|
| No. of Vapor Probes (VP) Installed: 0 | No. of VPs Lost: N/A     |
| No. of VPs Destroyed: 0               | No. of VPs Retained: N/A |

**D. Waste Removal Status**

All investigation and remediation derived waste was removed from the site.

**E. Public Comment**

A 60 day public notification period was completed on October 3, 2015. Refer to Attachment 3 for case closure notification information.



Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**5. ADMINISTRATIVE, INSTITUTIONAL & ENGINEERING CONTROLS**

**A. Land Use at Time of Closure**

The property encompasses approximately 0.49 acres of land area. It is currently developed with one two-story brick building with a concrete foundation, and one corrugated metal maintenance building with a concrete foundation and a raised delivery platform along Halleck Street. Most of the outside areas of the property are concrete paved. The main building adjacent to Park Street was apparently constructed in segments but completed as it is today prior to 1946. The second floor of the main building contains offices and conference space, as well as a former residential apartment with a full kitchen.

The site has historically been used in a commercial / industrial land use capacity, and was most recently used in a commercial capacity in association with the refrigeration and restaurant supply business recently located at the address. In January 2018 the property was purchased by Justin Hu. At time of case closure the buildings were vacant.

Refer to Attachment 1 for the current land use configuration.

**B. Administrative Controls**

**Site Management Requirements:** Due to residual petroleum hydrocarbon subsurface contamination, the site has been closed with the following site management requirements. The site management requirements associated with this case are specific to petroleum hydrocarbon contamination related to historic releases from UST systems and do not address other site contamination that may be in the subsurface from historic land use at and in the vicinity of the site.

- a. **Repair & Maintenance of Existing Site Improvements:** Any repair or maintenance activity of existing site improvements in areas of residual contamination requires planning and implementation of appropriate health and safety procedures prior to and during excavation activities. These activities include repair or maintenance of existing foundations, utility lines, hardscape, landscaping or other work occurring beneath the grade level of the existing finished surface. ACDEH required the preparation of a Site Management Plan to address residual contaminants of concern should excavation or construction activities occur in an area of residual contamination.

Each contractor shall be responsible for the safety of its employees and site visitors and must adhere to a site-specific health and safety plan prepared for the work in accordance with California Occupational Safety and Health Administration requirements and use properly trained personnel in accordance with California Code of Regulations, Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards.

- b. **Modifications to Existing Site Improvements:** Prior to permitting of any proposed modifications to the existing site improvements that include modifications to the foundation, subsurface utilities and/or hardscape or subsurface work, the property owner and the local building and planning authority with permitting jurisdiction at the site must notify ACDEH as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed modifications to assess risk to human health under the proposed changes.
- c. **Site Redevelopment.** Prior to permitting of any proposed site redevelopment including a change in land use to residential, or other conservative land use, the property owner and the local building and planning authority with permitting jurisdiction at the site must notify ACDEH as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed redevelopment to assess risk to human health under the proposed land use scenario from subsurface contamination associated all recognized environmental concerns at the site.

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form

Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**5. ADMINISTRATIVE, INSTITUTIONAL & ENGINEERING CONTROLS (CONTINUED)**

**C. Engineering Controls**

Not Applicable

**D. Institutional Controls**

Not Applicable



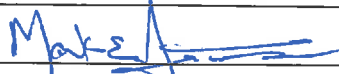
**E. Environmental Due Diligence**

ACDEH recommends that during the environmental due diligence process (initiated as part of activities including, but not limited to, property transactions, bank refinancing, and redevelopment) that the site and parcels in the vicinity of the site be evaluated for risk from and exposure to potential chemicals of concern identified at this site.

Rail lines of the Southern Pacific Rail Road are adjacent to the west. It is common for rail lines such as these to have contamination from chlorinated pesticides and herbicides, as well as heavy metals, and heavy petroleum.

An adjacent site, that shares the northern boundary with the Property, is currently under regulatory oversight with the California Environmental Protection Agency Department of Toxic Substances Control (DTSC). A former tenant (Technichem) operated a commercial technology at the site that extracted perchloroethene (PCE) from spent dry cleaning filters, for resale and extracted PCE from dry cleaning waste water. The site has soil and groundwater contaminated with PCE. Although it appears likely that groundwater does not flow directly toward the property from the areas of the site with high PCE concentrations in groundwater, this site could be of environmental concern for the Property should groundwater flow direction change.

**6. LOCAL AGENCY SIGNATURES**

|  |  |
|--|--|
| Dilan Roe, PE, C73703  | Title: Chief, Land Water Division            |
| Signature:  | Date: 4/27/2018                              |
| Paresh Khatri  | LOP Supervisor                               |
| Signature:  | Date: 4/27/2018                              |
| Mark Detterman, PG 4799, CEG 1788  | Title: Senior Hazardous Materials Specialist |
| Signature:  | Date: 4/27/2018                              |

This Case Closure Summary along with the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. Additional information on the case can be viewed in the online case file. Case files can be viewed over the Internet on the Alameda County Department of Environmental Health website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Both databases should be reviewed to obtain a complete history.

Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**ATTACHMENTS**

| No. | Description                                      | No. of Pages |
|-----|--|--------------|
| 1   | Historic, Current & Future Land Use Information  | 2            |
| 2   | Responsible Party Information                    | 8            |
| 3   | Case Closure Public Notification Information     | 3            |
| 4   | Geotracker LTCP Evaluation Checklist             | 2            |
| 5   | LTCP Media Specific Evaluation - Groundwater     | 2            |
| 6   | LTCP Media Specific Evaluation - Vapor Intrusion | 2            |
| 7   | LTCP Media Specific Evaluation - Direct Contact  | 1            |
| 8   | Figures with Sampling Locations                  | 6            |
| 9   | Boring Logs                                      | 12           |
| 10  | Groundwater Data                                 | 3            |
| 11  | Soil Data  | 4            |
| 12  | Sensitive Receptor Data                          | 1            |

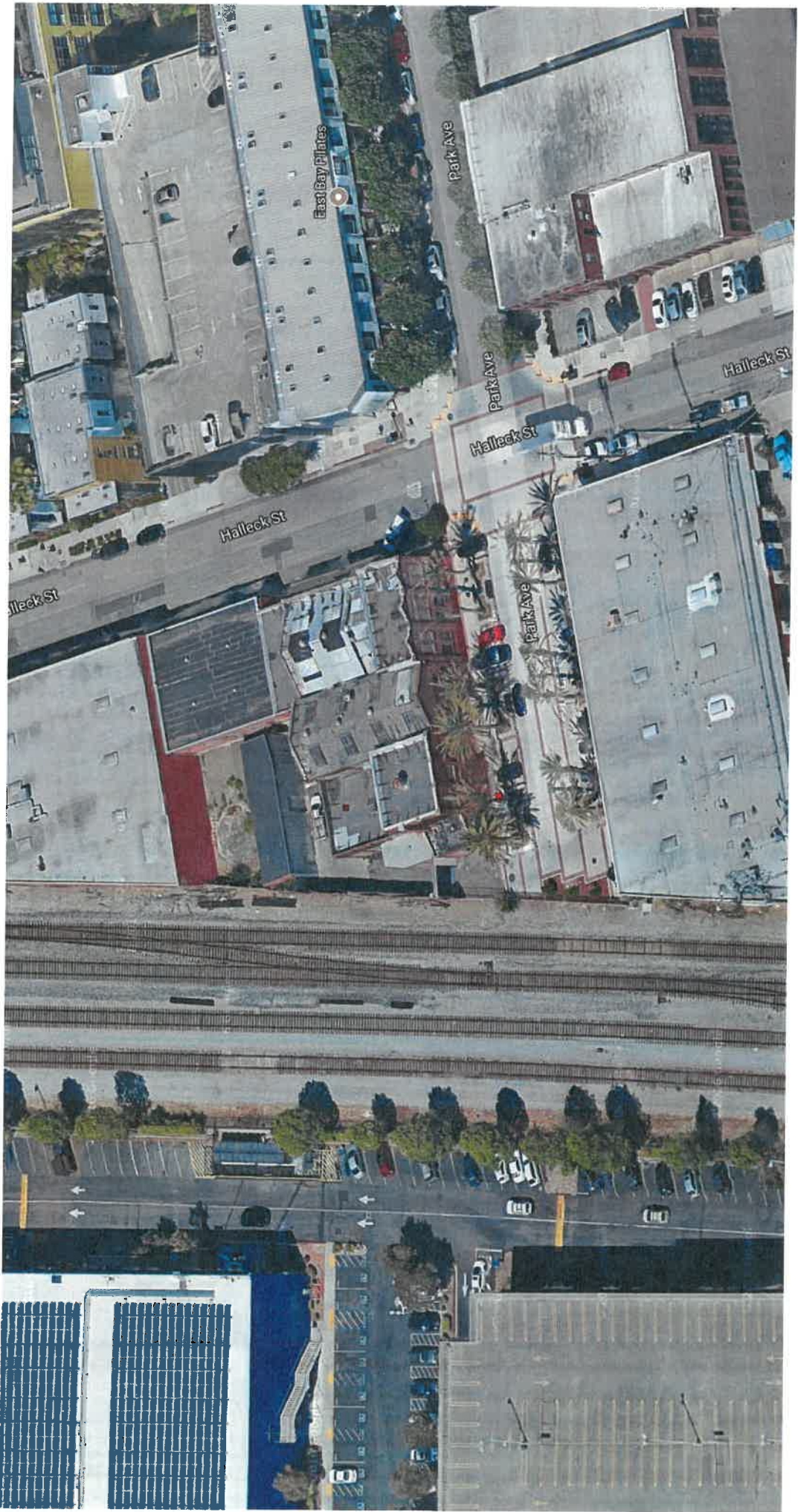
Leaking Underground Storage Tank (LUST) Cleanup Site  
Case Closure Summary Form  
Pellegrini Refrigeration & Restaurant Equipment Company (T10000002519)

**ACRONYMS**

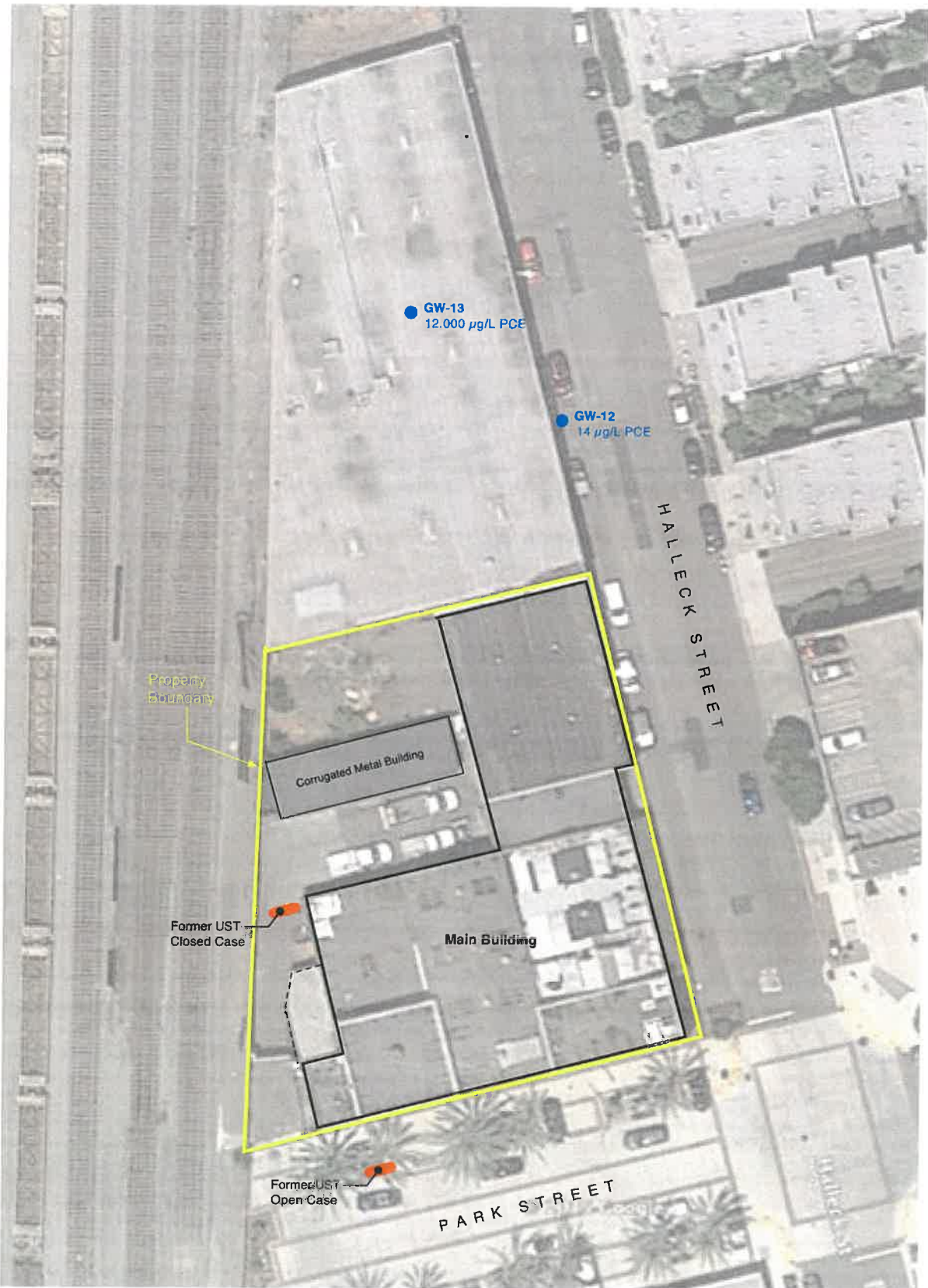
|          |   |
|----------|---|
| ACDEH    | Alameda County Department of Environmental Health               |
| APN      | Assessor Parcel Number  |
| BTEX     | Benzene, Toluene, Ethylbenzene, Xylenes                         |
| EDB      | Ethylene Dibromide  |
| CEG      | Certified Engineering Geologist                                 |
| Cd       | Cadmium   |
| Cr       | Chromium  |
| c/o      | Care of   |
| DTSC     | California Department of Toxic Substances Control               |
| EDC      | Ethylene Dichloride   |
| EPA      | Environmental Protection Agency                                 |
| GW       | Groundwater   |
| IA       | Indoor Air  |
| ID       | Identification  |
| LOP      | Local Oversight Program   |
| LTCP     | State Water Resources Control Board's Low Threat Closure Policy |
| LUST     | Leaking Underground Storage Tank                                |
| MTBE/TBA | Methyl tertiary butyl ether/t-Butyl alcohol                     |
| Ni       | Nickel  |
| N/A      | Not Applicable  |
| OA       | Outdoor Air   |
| Pb       | Lead  |
| PCBs     | Polychlorinated Biphenyls                                       |
| PE       | California Professional Engineer                                |
| PG       | California Professional Geologist                               |
| S        | Soil  |
| SCP      | Site Cleanup Program  |
| SS       | Subslab Vapor   |
| SV       | Soil Vapor  |
| SVOCs    | Semi Volatile Organic Compounds                                 |
| SW       | Surface Water   |
| TPH-d    | Total Petroleum Hydrocarbons Diesel                             |
| TPH-g    | Total Petroleum Hydrocarbons as Gasoline                        |
| TPH-ho   | Total Petroleum Hydrocarbons as Hydraulic Oil                   |
| TPH-jf   | Total Petroleum Hydrocarbons as Jet Fuel                        |
| TPH-k    | Total Petroleum Hydrocarbons as Kerosene                        |
| TPH-mo   | Total Petroleum Hydrocarbons as Motor Oil                       |
| TPH-ss   | Total Petroleum Hydrocarbons as Stoddard Solvent                |
| UST      | Underground Storage Tank  |
| VOCs     | Volatile Organic Compounds                                      |
| Zn       | Zinc  |

# ATTACHMENT 1









Base: Google Earth

|  |  |   |
|--|--|---|
|  | <p>1550 Park Street<br/>Emeryville, California<br/>Project A1293-1</p> | <p><b>PROPERTY MAP</b></p> <p><b>FIGURE<br/>2</b></p> |
|--|--|---|

# ATTACHMENT 2





COUNTY OF ALAMEDA  
**Assessor's Office**

[Help](#)

[New Query](#)

**Property Value System**

[History](#) | [Value](#) | [Transfer](#) | [Map](#) | [Glossary](#)

Parcel Number: **49-1036-3** Inactive: **N** Lien Date: **01/01/2017** Owner: **HU JUSTIN**

Property Address: **1550 PARK AVE, EMERYVILLE, CA 94608-3502**

[Parcel History](#)

| Mailing Name  |  | Historical Mailing Address                             | Document Date | Document Number | Value From Trans Tax | Parcel Count | Use                  |
|---|--|--|---------------|-----------------|----------------------|--------------|----------------------|
| HU JUSTIN   | <a href="#">List</a><br><a href="#">Owners</a> | 1970 BROADWAY STE<br>1030, OAKLAND, CA<br>94612        | 01/08/2018    | 2018-4443       |                      | 1            | <a href="#">4200</a> |
| Attn: LEADER PICONE &<br>YOUNG LLP                    |  |  |               |                 |                      |              |                      |
| 1550 PARK LLC   | <a href="#">List</a><br><a href="#">Owners</a> | 2336 MAGNOLIA ST STE<br>11, OAKLAND, CA 94607-<br>2312 | 07/31/2015    | 2015-<br>211764 | \$3,300,000          | 1            | <a href="#">4200</a> |
| APEX REFRIGERATION<br>CORPORATION                     | <a href="#">List</a><br><a href="#">Owners</a> | 1550 PARK AVE ,<br>EMERYVILLE, CA 94608-<br>3502       | 03/17/2003    | 2003-<br>149334 | \$1,200,000          | 1            | <a href="#">4200</a> |
| PELLEGRINI<br>REFRIGERATION &<br>RESTAURANT EQUIP INC | <a href="#">List</a><br><a href="#">Owners</a> | 1550 PARK AVE ,<br>EMERYVILLE, CA 94608-<br>3502       | 10/08/1971    | 1971-<br>13250  |                      | 1            | <a href="#">4200</a> |

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the

Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

The Alameda County Intranet site is best viewed in Internet Explorer Version 5.5 or later.  
Click [here](#) for more information regarding supported browsers.

Copyright © 2001 Alameda County

ASSESSOR'S MAP 49

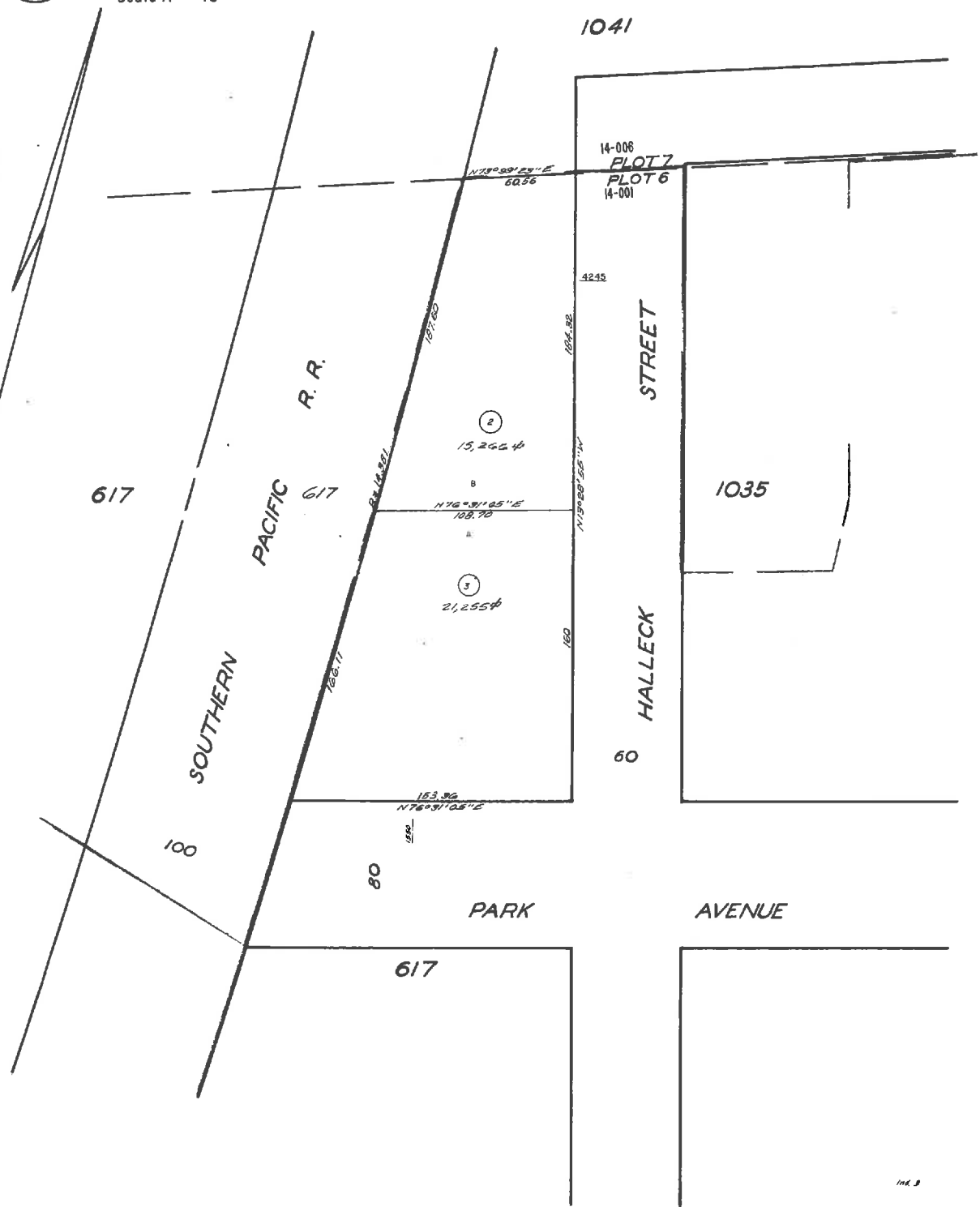
Code Area No. 14-001

1036

PM. 3079 113/59

Scale : 1" = 40'

Revised: 1-25-78 RM  
6-8-88 PB



ALAMEDA COUNTY  
**HEALTH CARE SERVICES**  
AGENCY

COLLEEN CHAWLA, Director



DEPARTMENT OF ENVIRONMENTAL HEALTH  
LOCAL OVERSIGHT PROGRAM (LOP)  
For Hazardous Materials Releases  
1131 HARBOR BAY PARKWAY  
ALAMEDA, CA 94502  
(510) 567-6700  
FAX (510) 337-9335

November 5, 2015

Ms. Pennie Barger  
Apex Refrigeration Corp.  
1550 Park Avenue  
Emeryville, CA 94608  
(Sent via electronic mail to:  
[pelco1969@sbcglobal.net](mailto:pelco1969@sbcglobal.net))

Ms. Pennie Barger  
Pellegrini Refrigeration & Restaurant Equipment Co.  
1550 Park Avenue  
Emeryville, CA 94608  
(Sent via electronic mail to:  
[pelco1969@sbcglobal.net](mailto:pelco1969@sbcglobal.net))

Ms. Amanda Kobler  
1550 Park LLC  
2336 Magnolia Street, Suite 11  
Oakland, CA 94607  
(Sent via electronic mail to: [amanda@phasedeux.com](mailto:amanda@phasedeux.com))

Subject: Updated Notice of Responsibility, Fuel Leak Case No. RO0003069 and GeoTracker Global ID T1000002519, Pellegrini Refrigeration & Restaurant Equipment Company, 1550 Park Avenue, Emeryville, CA 94608

Dear Mses. Barger and Kobler

In an earlier Notice of Responsibility (NOR), Apex Refrigeration Corp, Pellegrini Refrigeration & Restaurant Equipment Co, and 1550 Park LLC were notified that the above referenced site had been placed in the Local Oversight Program and that each had been named as a Responsible Party for the fuel leak case. Additional parties have been named as Responsible Parties for the fuel leak case in the attached updated NOR, as defined under 23 C.C.R Sec. 2720. Please see Attachment A – Responsible Parties Data Sheet, which identifies all Responsible Parties and provides background on the unauthorized release and Responsible Party Identification.

Should you have any questions, please contact me at (510) 567–6876 or send me an electronic mail message at [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org).

Sincerely,

Mark E. Detterman, P.G., 4799 C.E.G. 1788  
Senior Hazardous Materials Specialist

Enclosure: Attachment A – Responsible Parties Data Sheet

cc: Michael Lamphere, Lamphere Law Offices, 900 Larkspur Landing Circle, Suite 179; Larkspur, CA 94939, (Sent via electronic mail to [MLamphere@lampherelaw.com](mailto:MLamphere@lampherelaw.com))  
Erik Oehlschlager, Engineering / Remediation Resources Group, Inc, 4585 Pacheco Blvd, Suite 200, Martinez, CA 94553; (Sent via electronic mail to [erik.oehlschlager@errg.com](mailto:erik.oehlschlager@errg.com))  
Nick Patz, Adanta, Inc, 1801 Oak Street, Suite 100, Napa, CA 94559; (Sent via electronic mail to: [nick.patz@adanta-inc.com](mailto:nick.patz@adanta-inc.com))

Dilan Roe, ACDEH, (Sent via electronic mail to: [dilan.roe@acgov.org](mailto:dilan.roe@acgov.org))  
Paresh Khatri, ACDEH; (Sent via electronic mail to: [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org))  
Mark Detterman, ACDEH, (Sent via electronic mail to: [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org))  
Electronic File; GeoTracker



Certified Mail #: 7011 3500 0003 1934 8368

April 20, 2018

**NOTICE OF RESPONSIBILITY**

Site Name & Address:  
**PELLEGRINI REFRIGERATION & RESTAURANT & EQUIP.  
CO.  
1550 PARK AVENUE  
EMERYVILLE, CA 94608**

**Local ID: RO0003069  
Related ID: NA  
RWQCB ID: NA  
Global ID: T10000002519**

Responsible Party:

**HU JUSTIN  
ATTN: LEADER PICONE & YOUNG LLP  
1970 BROADWAY SUITE 1030  
OAKLAND, CA 94612**

**Date First Reported: 3/12/2010  
Substance: • 128 Bunker Fuel Oil  
• 12 Heater Fuel  
Funding for Oversight: LOPS - LOP State Fund  
Multiple RPs?: Yes**

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified Hu JUSTIN, ATTN: LEADER PICONE & YOUNG LLP as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker MARK DETTERMAN at this office at (510) 567-6876 if you have questions regarding your site.

Date: 04-26-2018

RONALD BROWDER, Acting Director  
Contract Project Director

Action: Update  
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



AGENCY

ALEX BRISCOE, Agency Director

Certified Mail #: 7009 2820 0001 4359 6804

November 3, 2015

**NOTICE OF RESPONSIBILITY**

Site Name & Address:

PELEGRINI REFRIGERATION & RESTAURANT & EQUIP.  
CO.  
1550 PARK AVENUE  
EMERYVILLE, CA 94608

Local ID: R00003069  
Related ID: NA  
RWQCB ID: NA  
Global ID: T10000002519

Responsible Party:

1550 PARK LLC  
2336 MAGNOLIA STREET, SUITE 11  
OAKLAND, CA 94607

Date First Reported: 3/12/2010  
Substance: • 128 Bunker Fuel Oil  
• 12 Heater Fuel

Funding for Oversight: LOPS - LOP State Fund  
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified 1550 PARK LLC as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker MARK DETTERMAN at this office at (510) 567-6876 if you have questions regarding your site.

 Date: 11-05-2015

RONALD BROWDER, Acting Director  
Contract Project Director

Action: Update  
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



Certified Mail #: 7009 2820 001 4372 7529

June 15, 2011

**NOTICE OF RESPONSIBILITY**

**Site Name & Address:**

PELLEGRINI REFRIGERATION & RESTAU. EQUIP. CO.  
1550 PARK AVE  
EMERYVILLE, CA 94608

Local ID: RO0003069  
Related ID: NA  
RWQCB ID: NA  
Global ID: T10000002519

**Responsible Party:**

PENNIE BARGER  
PELLEGRINI REFRIG. & RESTAU. EQUIP.  
155 PARK AVE  
EMERYVILLE CA 94608-3502

Date First Reported: 3/12/2010

Substance: 128 Bunker fuel oil

Funding for Oversight: LOPS - LOP State Fund

Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified APEX REFRIGERATION CORP as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5650.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker DETTERMAN, MARK, at this office at (510)567-6876 if you have questions regarding your site.

  
ARIU LEVI, Director  
Contract Project Director

Date: 6/17/11

Action: Add  
Reason: New Case

ALAMEDA COUNTY ENVIRONMENTAL HEALTH  
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

April 20, 2018

Site Name & Address:  
PELEGRINI REFRIGERATION & RESTAURANT &  
EQUIP. CO.  
1550 PARK AVENUE  
EMERYVILLE, CA 94608

Local ID: RO0003069  
Related ID: NA  
RWQCB ID: NA  
Global ID: T10000002519

All Responsible Parties

RP has been named a Primary RP - PELEGRINI REFRIGERATION & RESTAURANT & EQUIP. CO.  
ATTN: PENNIE BARGER  
1550 PARK AVENUE | EMERYVILLE, CA 94608 | No Phone Number Listed

RP has been named a Primary RP - APEX REFRIGERATION CORPORATION  
ATTN: PENNIE BARGER  
1550 PARK AVENUE | EMERYVILLE, CA 94608 | No Phone Number Listed

RP has been named a Primary RP - 1550 PARK LLC  
2336 MAGNOLIA STREET, SUITE 11 | OAKLAND, CA 94607 | No Phone Number Listed

RP has been named a Primary RP - HU JUSTIN, ATTN: LEADER PICONE & YOUNG LLP  
1970 BROADWAY, SUITE 1030 | OAKLAND, CA 94612 | No Phone Number Listed

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

## ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

April 20, 2018

---

### Existence of Unauthorized Release

One approximately 1,000-gallon underground storage tank (UST) that stored diesel, heating oil, or bunker oil was excavated and removed from the beneath the sidewalk at the site on February 8, 2010. Upon consultation with the adjacent property owner, the City of Emeryville removed the UST on behalf of the property owner. This action was taken to facilitate the completion of street improvements along Park Avenue. No holes were reported. Pit water had an oily sheen and was foamy, was pumped out, but did not recharge. Two confirmation soil samples were collected from beneath the excavation and one was collected from the soil stockpile. TPH as diesel (5.8 and 15 mg/kg) was detected beneath the excavation, while a concentration of TPH as diesel (830 mg/kg) was detected in the four-point stockpile sample; both indicate that an unauthorized release had occurred.

### **Responsible Party Identification**

Pellegrini Refrigeration & Restaurant Equipment Co. is the former property owner associated with the underground storage tank (UST). Pellegrini Refrigeration & Restaurant Equipment Co. is a responsible party for the site because it owned an UST used for the storage of a hazardous substance (Definition 1) and owned the property associated with an unauthorized release (Definition 3).

Apex Refrigeration Corporation purchased the property in March 2003 and was the property owner associated with the underground storage tank (UST) at the time of tank removal. The Apex Refrigeration Corporation is a responsible party for the site because it owned the property associated with an unauthorized release (Definition 3).

1550 Park LLC purchased the property in July 2015. 1550 Park LLC is a responsible party for the site because it owns the property associated with an unauthorized release (Definition 3).

Hu Justin, Attn: Leader Picone & Young LLP, purchased the property in January 2018. Justin Hu is a responsible party for the site because it owns the property associated with an unauthorized release (Definition 3).



# ATTACHMENT 3



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

**INVITATION TO COMMENT – POTENTIAL CASE CLOSURE**

**Pellegrini Refrigeration & Restaurant Equipment Company  
1550 Park Avenue, Emeryville, CA 94608  
FUEL LEAK CASE RO0003069  
GEOTRACKER GLOBAL ID T1000002519**

**July 28, 2015**

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Environmental Health (ACEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-Threat Closure Policy. Therefore, ACEH is considering closure of the fuel leak case. Due to the residual contamination on site, the site would be closed with site management requirements that require further evaluation if the site is to be redeveloped in the future.

The public is invited to review and comment on the potential closure of the fuel leak case. This notice is being sent to the current occupants and landowners of the site and adjacent properties and other known interested parties. The entire case file can be viewed over the Internet on the ACEH website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Please send written comments to Mark Detterman at the address below; all comments will be forwarded to the responsible parties. Comments **received by October 3, 2015** will be considered and responded to prior to a final determination on the proposed case closure.

If you have comments or questions regarding this site, please contact the ACEH caseworker, Mark Detterman at 510-567-6776 or by email at [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org). Please refer to ACEH case RO0003069 in any correspondence.

| Sort_APN      | Parcel_APN  | Name                       | StreetAddress      | Unit | City       | Zip     | Zip_4 |
|---------------|-------------|----------------------------|--------------------|------|------------|---------|-------|
| 049 103600300 | 49-1036-3   | APEX REFRIGERATION CORP    | 1550 PARK AVE      |      | EMERYVILLE | (94608  | 3502  |
| 049 061700506 | 49-617-5-6  | CHAPPELL LLC & HAGAN LLC   | 4090 HALLECK ST    |      | EMERYVILLE | (94608  | 3532  |
| 049 103517200 | 49-1035-172 | COMMON AREA OF PM 8042     | 1500 PARK AVE      | 200  | EMERYVILLE | (94608  | 3518  |
| 049 103500700 | 49-1035-7   | EMERYVILLE WAREHOUSE LC    | ONE ANNABEL LN     | 100  | SAN RAMON  | (94583  | 4359  |
| 049 061700110 | 49-617-1-10 | IKEA PROPERTY INC          | 420 ALAN WOOD RD   |      | CONSHOHOC  | 19428   |       |
| 007 061800619 | 7-618-6-19  | IKEA PROPERTY INC          | 420 ALAN WOOD RD   |      | CONSHOHOC  | 19428   | 1141  |
| 049 061700400 | 49-617-4    | PARK AVENUE PROPERTIES     | 959 DEWING AVE     |      | LAFAYETTE  | C 94549 | 4252  |
| 049 061700300 | 49-617-3    | PARK AVENUE PROPERTIES     | 959 DEWING AVE     |      | LAFAYETTE  | C 94549 | 4252  |
| 007 061700100 | 7-617-1     | PARK AVENUE PROPERTIES     | 959 DEWING AVE     |      | LAFAYETTE  | C 94549 | 4252  |
| 049 103600200 | 49-1036-2   | PELLEGRINI VIRGINIA E TR B | 300 DEER VALLEY RD |      | SAN RAFAEL | (94903  | 5510  |
| 049 061702700 | 49-617-27   | S P CO 872-1-6D POR 11     | HOLLIS ST          | 3L   | EMERYVILLE | (94608  |       |
| 049 103513100 | 49-1035-131 | TIPPING STEVEN B & ZENIAD  | 8429 WILDCAT DR    |      | EL CERRITO | (94530  | 2560  |

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Regional Water Quality Control Board  
Laurent Meillier  
San Francisco Bay Region  
1515 Clay St, Ste 1400  
Oakland, CA 94612

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# ATTACHMENT 4

**PELLEGRINI REFRIGERATION & RESTAURANT EQUIPMENT CO (T10000002519) - [MAP THIS SITE](#)**
[PUBLIC PAGE](#)

1550 PARK AVE  
 EMERYVILLE, CA 94608  
 ALAMEDA COUNTY  
 LUST CLEANUP SITE ([INFO](#))  
 STATUS: COMPLETED - CASE CLOSED

**PERTINENT INFORMATION:**  
 CUF Claim #: 20064 CUF Priority Assigned: B CUF Amount Paid: \$0

**CLEANUP OVERSIGHT AGENCIES**  
 ALAMEDA COUNTY LOP ([LEAD](#)) - CASE #: R00003089 - [MARK DETTERMAN](#)  
 SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: NA - [Regional Water Board](#)

[Activities Report](#)
[Documents / Data](#)
[Environmental Conditions](#)
[Admin](#)
[Funding](#)
[Case Reviews](#)

THERE ARE 2 OTHER CASES ASSOCIATED WITH THIS CASE - [SHOW](#)  
 THIS PROJECT WAS LAST MODIFIED BY [MARK DETTERMAN](#) ON 4/27/2018 2:54:26 PM - [HISTORY](#)

**CLOSURE POLICY**
**THIS VERSION IS FINAL AS OF 4/27/2018**
[CLOSURE POLICY HISTORY](#)

**General Criteria - The site satisfies the policy general criteria - [CLEAR SECTION ANSWERS](#)**
 YES

a. Is the unauthorized release located within the service area of a public water system?

Name of Water System :  

 YES  NO

b. The unauthorized release consists only of petroleum ([info](#)).  YES  NO

c. The unauthorized ("primary") release from the UST system has been stopped.  YES  NO

d. Free product has been removed to the maximum extent practicable ([info](#)).  FP Not Encountered  YES  NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ([info](#)).  YES  NO

f. Secondary source has been removed to the extent practicable ([info](#)).  YES  NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15.  Not Required  YES  NO

h. Does a nuisance exist, as defined by [Water Code section 13050](#).  YES  NO

**1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below - [CLEAR SECTION ANSWERS](#)**
 YES

**EXEMPTION - Soil Only Case (Release has not Affected Groundwater - [Info](#))**
 YES  NO

Does the site meet any of the Groundwater specific criteria scenarios?

1.3 - The contaminant plume that exceeds water quality objectives is <250 feet in length. Free product has been removed to the maximum extent practicable, may still be present below the site where the release originated, but does not extend off-site. The plume has been stable or decreasing for a minimum of five years. The nearest existing water supply well and/or surface water body is >1,000 feet from the defined plume boundary. The property owner is willing to accept a land use restriction if the regulatory agency requires a land use restriction as a condition for closure.  YES  NO

**2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c - [CLEAR SECTION ANSWERS](#)**
 YES  NO

**EXEMPTION - Active Commercial Petroleum Fueling Facility**
 YES  NO

Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios?  YES  NO

**ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:**

**Soil Gas Samples :**  
 No Soil Gas Samples  Taken Incorrectly

**Exposure Type :**  
 Residential  Commercial

**Free Product :**  
 In Groundwater  In Soil  Unknown

**TPH in the Bioattenuation Zone :**  
 ≥ 100 mg/kg  Unknown  Soil samples not taken at two depths within 5 ft. zone (only for Scenario 4 with BioZone)

**Bioattenuation Zone Thickness :**  
 < 5 Feet (No BioZone)  ≥ 5 Feet and < 10 Feet  ≥ 10 Feet and < 30 Feet  ≥ 30 Feet  30ft BioZone Compromised TPH > 100mg/kg  Unknown

**O2 Data in Bioattenuation Zone :**  
 No O2 Data  O2 < 4%  O2 ≥ 4%

**Benzene in Groundwater :**  
 ≥ 100 µg/l and < 1,000 µg/l  ≥ 1,000 µg/l  Unknown

**Soil Gas Benzene :**  
 ≥ 85 µg/m³ and < 280 µg/m³  ≥ 280 µg/m³ and < 85,000 µg/m³  ≥ 85,000 µg/m³ and < 280,000 µg/m³  ≥ 280,000 µg/m³  Unknown

**Soil Gas EthylBenzene :**  
 ≥ 1,100 µg/m³ and < 3,600 µg/m³  ≥ 3,600 µg/m³ and < 1,100,000 µg/m³  ≥ 1,100,000 µg/m³ and < 3,600,000 µg/m³  ≥ 3,600,000 µg/m³  Unknown

**Soil Gas Naphthalene :**  
 ≥ 93 µg/m³ and < 310 µg/m³  ≥ 310 µg/m³ and < 93,000 µg/m³  ≥ 93,000 µg/m³ and < 310,000 µg/m³  ≥ 310,000 µg/m³  Unknown

**3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below - [CLEAR SECTION ANSWERS](#)**
 YES

**EXEMPTION - The upper 10 feet of soil is free of petroleum contamination**
 YES  NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?  YES  NO

3(a) - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table ([LINK](#)) for the specified depth below ground surface.  YES  NO

**Additional Information**

Should this case be closed in spite of NOT meeting policy criteria?  YES  NO

Explain:

The site does not meet the LTCP Media Specific Criteria for Vapor Intrusion for several reasons, including the lack of a bioattenuation zone due to shallow groundwater coupled with total petroleum hydrocarbon concentrations greater than 100 milligrams per kilogram within the 0 to 5 foot depth interval. However, petroleum volatile organic compounds, including naphthalene, in groundwater samples in the vicinity of the former UST were non-detect or detected trace concentrations and indicate that residual contamination at the site does not pose a vapor intrusion risk at the site.

Has this LTCP Checklist been updated for FY 17/18?

YES  NO

[SPELL CHECK](#)

Save Form as Partially Completed

Save Form as Complete

# ATTACHMENT 5



# Attachment 5 – LTCP Media Specific Evaluation-Groundwater

| LTCP GROUNDWATER SPECIFIC CRITERIA  |  |                      |                      |   |                      |  |
|---|--|----------------------|----------------------|---|----------------------|--|
| Closure Scenario  |  |                      |                      |   |                      |  |
| ___ Site has not affected groundwater; ___ Scenario 1; ___ Scenario 2; <u> X </u> Scenario 3; ___ Scenario 4;<br>___ Scenario 5; ___ This case should be closed in spite of not meeting the groundwater specific media criteria |  |                      |                      |   |                      |  |
| Evaluation Criteria: Shading indicates criteria met   |  |                      |                      |   |                      |  |
| Site Specific Data  |  | Scenario 1           | Scenario 2           | Scenario 3                                  | Scenario 4           | Scenario 5   |
| Plume Length  | < 150 feet   | <100 feet            | <250 feet            | <1,000 feet                                 | <1,000 feet          | The site does not meet scenarios 1 through 4; however, a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. |
| Free Product  | Removed to maximum extent practicable  | No free product      | No free product      | Removed to maximum extent practicable       | No free product      |  |
| Plume Stable or Decreasing  | Stable or decreasing   | Stable or decreasing | Stable or decreasing | Stable or decreasing for minimum of 5 years | Stable or decreasing |  |
| Distance to Nearest Water Supply Well (from plume boundary)   | > 3,000 feet (DWR / ACPWA)<br>>2,000 (GAMA)                                      | >250 feet            | >1,000 feet          | >1,000 feet                                 | >1,000 feet          |  |
| Distance to Nearest Surface Water Body (from plume boundary)  | Downgradient: 1,275 feet<br>Cross Gradient: 1,580 feet<br>Upgradient: 4,375 feet | >250 feet            | >1,000 feet          | >1,000 feet                                 | >1,000 feet          |  |
| Benzene Concentrations (µg/l)   | Historic Max: <0.5<br>Current Max: <0.5  | No criteria          | <3,000               | <1,000                                      | <1,000               |  |
| MTBE Concentrations (µg/l)  | Historic Max: <0.5<br>Current Max: <0.5  | No criteria          | <1,000               | <1,000                                      | <1,000               |  |
| Property Owner Willing to Accept a Land Use Restriction   | Yes  | Not applicable       | Not applicable       | Yes   | Not applicable       |  |

Notes: DWR = Department of Water Resources  
 ACPWA = Alameda County Public Works Agency  
 GAMA = Groundwater Ambient Monitoring Assessment (GeoTracker)

## Attachment 5 – LTCP Media Specific Evaluation-Groundwater

| Analysis                    |  |
|-----------------------------|--|
| <b>Plume Length</b>         | Generally defined to, or close to, water quality objectives east of the rail tracks. (Contaminant plume that exceeds water quality objectives is less than an estimated 150 feet.) Multiple potential utility corridor preferential pathways are present in the immediate vicinity of the former UST location. A lateral storm drain line is one of the closest potential preferential pathways to the former UST location. Soil bore S7 was installed along the main storm drain line in order to determine if the storm drain is acting as a preferential pathway. Groundwater concentrations at S7 do not indicate it is acting as a preferential pathway.  |
| <b>Free Product</b>         | Oily sheen and Light Non-Aqueous Phase Liquids (LNAPL) was observed on the pit water at the time of the removal of the UST. Pit water was pumped from the excavation and did not recharge while the excavation was open. Analytical results of grab groundwater samples collected in the vicinity of the former UST documented concentrations of Total Petroleum Hydrocarbons that are considered to be indirect evidence of LNAPL by technical justification papers associated with the LTCP ( <i>Technical Justification for Vapor Intrusion Media-Specific Criteria</i> , dated March 21, 2012). As a result, groundwater monitoring well MW-1 was installed 15 feet from the former UST location at a position presumed to be downgradient based on topography and regional groundwater flow patterns. Well MW-1 did not detect LNAPL, nor did it document concentrations indicative of Light Non Aqueous Phased Liquid (LNAPL) during two groundwater monitoring events conducted at the site. The well was screened appropriately to detect LNAPL. Therefore, residual LNAPL does not appear to be mobile. |
| <b>Plume Stability</b>      | Plume appears stable in aerial extent. (The contaminant mass has expanded to its maximum extent defined as the distance from the release where attenuation exceeds migration.)   |
| <b>Water Supply Wells</b>   | An Alameda County Public Works Agency (ACPWA) and the Department of Water Resources (DWR) well survey indicate no public water supply wells, irrigation wells within 3,000 feet of the site. The well survey results from the GeoTracker Groundwater Ambient Monitoring Assessment (GAMA) website indicates there are no public water supply wells, irrigation wells, California Department of Public Health wells, Department of Pesticide Regulation wells located within a 2,000 foot radius of the site.   |
| <b>Surface Water Bodies</b> | An unnamed inlet to San Francisco Bay is approximately 1,275 feet downgradient to the west southwest. Temescal Creek is 1,580 and 4,375 feet cross- and up-gradient, respectively.   |

# ATTACHMENT 6

# Attachment 6 – LTCP Media Specific Evaluation-Vapor Intrusion

| LTCP VAPOR SPECIFIC CRITERIA   |   |             |               |                       |                       |             |                               |                                 |
|--|---|-------------|---------------|-----------------------|-----------------------|-------------|-------------------------------|---------------------------------|
| Closure Scenario   |   |             |               |                       |                       |             |                               |                                 |
| Exemption: <input type="checkbox"/> Active fueling station exempt from vapor specific criteria; Active as of date: _____   |   |             |               |                       |                       |             |                               |                                 |
| <input type="checkbox"/> Scenario 1; <input type="checkbox"/> Scenario 2; <input type="checkbox"/> Scenario 3a; <input type="checkbox"/> Scenario 3b; <input type="checkbox"/> Scenario 4a without bioattenuation zone;<br><input type="checkbox"/> Scenario 4b with bioattenuation zone; <input type="checkbox"/> Site specific risk assessment demonstrates human health is protected;<br><input type="checkbox"/> Exposure controlled through use of mitigation measures or institutional controls;<br><input checked="" type="checkbox"/> <b>Case closed in spite of not meeting the vapor specific media criteria</b> |   |             |               |                       |                       |             |                               |                                 |
| Evaluation Criteria: Shading indicates criteria met.   |   |             |               |                       |                       |             |                               |                                 |
| Site Specific Data   |   | Scenario 1  | Scenario 2    | Scenario 3A           | Scenario 3B           | Scenario 3C | Scenario 4a                   | Scenario 4b                     |
| Unweathered LNAPL  | LNAPL in soil   | LNAPL in gw | LNAPL in soil | No LNAPL              | No LNAPL              | No LNAPL    | No criteria                   | No criteria                     |
| Thickness of Bioattenuation Zone Beneath Foundation  | < 5 feet  | ≥30 feet    | ≥30 feet      | ≥5 feet               | ≥10 feet              | ≥5 feet     | No criteria                   | ≥ 5 feet                        |
| Depth to Shallowest Groundwater  | 2.13 feet   | ≥30 feet    | ≥30 feet      | ≥5 feet               | ≥10 feet              | ≥ 5 feet    | ≥ 5 feet                      | ≥ 5 feet                        |
| Total TPHg & TPHd in Soil in Bioattenuation Zone   | 5,900 mg/kg   | <100 mg/kg  | <100 mg/kg    | <100 mg/kg            | <100 mg/kg            | <100 mg/kg  | No criteria                   | <100 mg/kg                      |
| Maximum Current Benzene Concentration in Groundwater   | < 0.5 µg/L  | No criteria | No criteria   | <100 µg/L             | ≥100 and <1,000 µg/L  | <1,000 µg/L | No criteria                   | No criteria                     |
| Oxygen Data in Bioattenuation Zone   | No oxygen data  | No criteria | No criteria   | No oxygen data or <4% | No oxygen data or <4% | ≥4%         | No criteria                   | ≥4% at bottom of zone           |
| Soil Vapor Depth Beneath Foundation  | Not collected   | No criteria | No criteria   | No criteria           | No criteria           | No criteria | 5 feet                        | 5 feet                          |
| Benzene Concentrations (µg/m <sup>3</sup> )  | Historic Max: Not Analyzed<br>Current Max: Not Analyzed | No criteria | No criteria   | No criteria           | No criteria           | No criteria | Res: < 85;<br>Com: < 280      | Res: < 85K;<br>Com: < 280K      |
| Ethylbenzene Concentrations (µg/m <sup>3</sup> )   | Historic Max: Not Analyzed<br>Current Max: Not Analyzed | No criteria | No criteria   | No criteria           | No criteria           | No criteria | Res: < 1,100;<br>Com: < 3,600 | Res: < 1,100K;<br>Com: < 3,600K |
| Naphthalene Concentrations (µg/m <sup>3</sup> )  | Historic Max: Not Analyzed<br>Current Max: Not Analyzed | No criteria | No criteria   | No criteria           | No criteria           | No criteria | Res: < 93;<br>Com: < 310      | Res: < 93K;<br>Com: < 310K      |

# Attachment 6 – LTCP Media Specific Evaluation-Vapor Intrusion

| LTCP VAPOR SPECIFIC CRITERIA (cont.)   |   |
|--|---|
| Vapor Intrusion to Indoor Air Analysis |   |
| <b>Onsite</b>                          | The site does not meet the vapor specific criteria of the Low Threat Closure Policy for several reasons, including the lack of a bioattenuation zone coupled with Total Petroleum Hydrocarbons (TPH) concentrations greater than 100 milligrams per kilogram in the bioattenuation zone 0 to 5 foot interval. Volatile organic compounds, including naphthalene, in groundwater samples in the vicinity of the former UST were non-detect or detected trace concentrations and indicate that residual contamination at the site that would not pose a vapor intrusion risk at the site or downgradient of the site. |
| <b>Offsite</b>                         | There were no detectable concentrations of petroleum volatile organic compounds, including naphthalene, in soil or groundwater reported at the site that would pose a vapor intrusion risk.   |

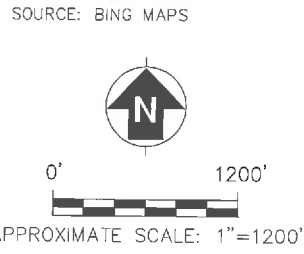
# ATTACHMENT 7

# Attachment 7 – Direct Contact Evaluation and Data

| LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA  |  |                         |  |                         |  |                          |
|--|--|-------------------------|--|-------------------------|--|--------------------------|
| Closure Scenario   |  |                         |  |                         |  |                          |
| <p>___ Exemption (no petroleum hydrocarbons in upper 10 feet), ___ Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below, ___ Site-specific risk assessment, ___ A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health, <b><u>X</u></b> <b>A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls</b>, ___ This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria.</p> |  |                         |  |                         |  |                          |
| Evaluation Criteria: Bold indicates criteria met.  |  |                         |  |                         |  |                          |
| Are maximum concentrations less than those in Table 1 below?   |  |                         |  |                         | No   |                          |
| Constituent  |  | Residential             |  | Commercial/Industrial   |  | Utility Worker           |
|  |  | 0 to 5 feet bgs (mg/kg) | Volatilization to outdoor air (5 to 10 feet bgs) mg/kg | 0 to 5 feet bgs (mg/kg) | Volatilization to outdoor air (5 to 10 feet bgs) mg/kg | 0 to 10 feet bgs (mg/kg) |
| Site Maximum   | Benzene  | <b>&lt; 0.33</b>        | <b>&lt; 0.68</b>                                       | <b>&lt; 0.33</b>        | <b>&lt; 0.68</b>                                       | <b>&lt;0.68</b>          |
| LTCP Criteria  | Benzene  | ≤1.9                    | ≤2.8   | ≤8.2                    | ≤12  | ≤14                      |
| Site Maximum   | Ethylbenzene   | <b>&lt; 0.33</b>        | <b>&lt; 0.68</b>                                       | <b>&lt; 0.33</b>        | <b>&lt; 0.68</b>                                       | <b>&lt;0.68</b>          |
| LTCP Criteria  | Ethylbenzene   | ≤21                     | ≤32  | ≤89                     | ≤134   | ≤314                     |
| Site Maximum   | Naphthalene  | <b>&lt;0.029</b>        | <b>&lt;0.034</b>                                       | <b>&lt;0.029</b>        | <b>&lt;0.034</b>                                       | <b>&lt;0.034</b>         |
| LTCP Criteria  | Naphthalene  | ≤9.7                    | ≤9.7   | ≤45                     | ≤45  | ≤219                     |
| Site Maximum   | PAHs   | 0.26                    | <b>&lt;0.5</b>   | <b>0.26</b>             | <b>&lt;0.5</b>   | <b>0.26</b>              |
| LTCP Criteria  | PAHs   | ≤0.063                  | NA   | ≤0.68                   | NA   | ≤4.5                     |
| Direct Contact and Outdoor Air Analysis  |  |                         |  |                         |  |                          |
| <b>Onsite</b>  | <p>The site does not meet the Direct Contact criteria of the Low Threat Closure Policy for unconditional use. The former underground storage tank (UST) was identified as a heating oil, or possibly a bunker C heating oil UST. Poly-aromatic hydrocarbons (PAHs) are not required to be evaluated under the Low Threat Closure Policy (LTCP), for a heating oil UST; however, are for Bunker C oil. Therefore an evaluation of PAHs was conducted due to the unknown use history of the former UST. The highest of benzo(a)pyrene toxicity equivalent (BaPe) at the site (sample S1-3.5) is 0.26 milligrams per kilogram (mg/kg), which meets the commercial PAH criteria, but not the residential criteria.</p> <p>Therefore, due to the residual contamination, closure is under a commercial land use scenario with site management requirements. A Site Management Plan (SMP) has been generated to address potential contaminants of concern should excavation or construction activities occur in an area of residual contamination.</p> |                         |  |                         |  |                          |
| <b>Offsite</b>   | <p>The petroleum hydrocarbon soil plume does not appear to extend beyond the sidewalk and beneath the public street based on soil samples collected.</p>   |                         |  |                         |  |                          |


# ATTACHMENT 8





FILE NAME: N:\Graphics\2013\2013-094 APEX Emeryville\Fig1.dwg LAYOUT NAME: 1 PLOTTED: Monday, October 27, 2014 6:46am

SOURCE: BING MAPS

|   |  |                          |                          |                      |
|---|--|--------------------------|--------------------------|----------------------|
|  <b>Engineering/Remediation Resources Group, Inc.</b><br>4585 Pacheco Blvd., Suite 200<br>Martinez, California 94553<br>(925) 969-0750 | CLIENT: APEX REFRIGERATION, INC.<br>EMERYVILLE, CALIFORNIA | <b>SITE LOCATION MAP</b> |                          |                      |
|   | LOCATION: 1550 PARK AVENUE<br>EMERYVILLE, CALIFORNIA       | DRAWN BY: RDB 10/27/14   | CHECKED BY: EKO 10/27/14 | PROJECT NO. 2013-094 |

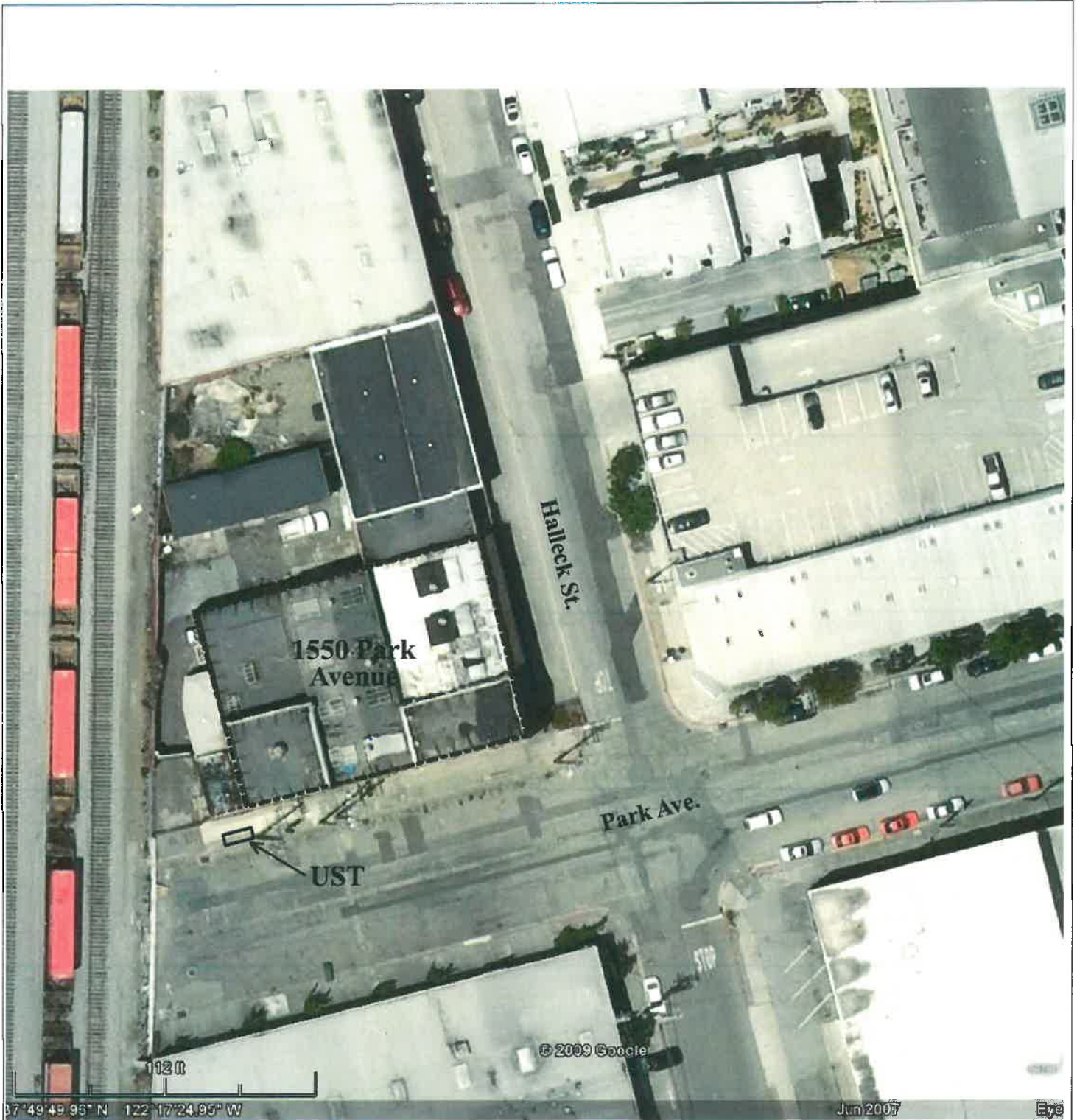
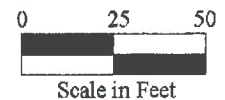


Figure 2  
 Site Plan Aerial Photograph  
 City of Emeryville  
 1550 Park Avenue  
 Emeryville, California



Aerial Photograph from  
 Google Earth, June 2007

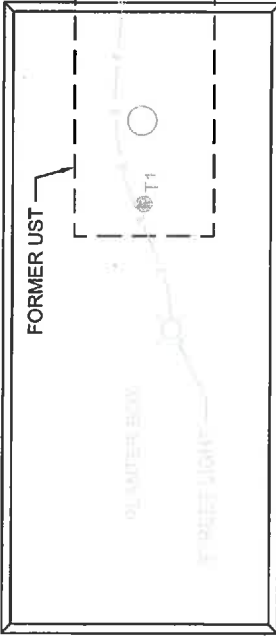
P&D Environmental, Inc.  
 55 Santa Clara Ave., Suite 240  
 Oakland, CA 94610



APEX REFRIGERATION, INC. BUILDING  
1550 PARK AVE.

| Sample ID      |              |                        | Apex-S1-030113 |              |                        |
|----------------|--------------|------------------------|----------------|--------------|------------------------|
| Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) | Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) |
| <0.24          | 0.94 Y       | 6,600 Y                | 3.5            | 9            | 9                      |
| TPH-gasoline   | 400 Y        | 13 Y                   | TPH-gasoline   | 1,200        | 12                     |
| TPH-diesel     |              |                        | TPH-diesel     |              |                        |
| TPH-motor oil  |              |                        | TPH-motor oil  |              |                        |

| Sample ID      |              |                        | Apex-S2-030113 |              |                        |
|----------------|--------------|------------------------|----------------|--------------|------------------------|
| Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) | Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) |
| <0.24          | 480 Y        | 9,300 Y                | 5.5            | 9            | 9                      |
| TPH-gasoline   | 3,100 Y      | 6.6 Y                  | TPH-gasoline   | 140          | 9.0                    |
| TPH-diesel     |              |                        | TPH-diesel     |              |                        |
| TPH-motor oil  |              |                        | TPH-motor oil  |              |                        |



| Sample ID      |              |                        | Apex-S4-030113 |              |                        |
|----------------|--------------|------------------------|----------------|--------------|------------------------|
| Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) | Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) |
| 2,000 Y        | 510 Y        | 83,000 Y               | 4.5            | 8.5          | 9                      |
| TPH-gasoline   | 2,000 Y      | 21 Y                   | TPH-gasoline   | 0.31 Y       | 7,100 Y                |
| TPH-diesel     | 560          | 30                     | TPH-diesel     | 4.4 Y        | 5.1 Y                  |
| TPH-motor oil  |              |                        | TPH-motor oil  | 25           | <6.7                   |

| Sample ID      |              |                        | Apex-S3-030113 |              |                        |
|----------------|--------------|------------------------|----------------|--------------|------------------------|
| Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) | Depth (ft bgs) | Soil (mg/kg) | GW <sup>1</sup> (µg/L) |
| 0.53 Y         | 0.53 Y       | 7,200 Y                | 3.5            | 9            | 9                      |
| TPH-gasoline   | 4.4 Y        | 5.1 Y                  | TPH-gasoline   | 0.53 Y       | 7,200 Y                |
| TPH-diesel     |              |                        | TPH-diesel     | 4.4 Y        | 5.1 Y                  |
| TPH-motor oil  |              |                        | TPH-motor oil  | 25           | <6.7                   |

NOTES:

| Environmental Screening Levels <sup>2</sup> |                    |
|---|--------------------|
| Soil (mg/kg)                                | Groundwater (µg/L) |
| TPH-gasoline 420                            | 500                |
| TPH-diesel 500                              | 640                |
| TPH-motor oil 2,500                         | 640                |

1 = GRAB GROUNDWATER SAMPLE COLLECTED AT THIS LOCATION  
2 = SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD ENVIRONMENTAL SCREENING LEVELS (ESL) SUMMARY TABLE B: FOR SHALLOW SOIL AND GROUNDWATER FOR COMMERCIAL / INDUSTRIAL SITES WHERE GROUNDWATER IS NOT A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER  
Y = SAMPLE EXHIBITS CHROMATOGRAPHIC PATTERN, WHICH DOES NOT RESEMBLE STANDARD  
**BOLD** = SAMPLE RESULT EXCEEDS THE LABORATORY REPORTING LIMITS FOR THE GIVEN ANALYTE  
ft bgs = FEET BELOW GROUND SURFACE  
ID = IDENTIFICATION  
mg/kg = MILLIGRAMS PER KILOGRAM  
µg/L = MICROGRAMS PER LITER

LEGEND:

- S3 SOIL SAMPLE LOCATION
- T2 PREVIOUS SOIL SAMPLE LOCATION
- ELECTRICAL LINE
- STORM DRAIN LINE
- CABLE TELEVISION LINE
- GAS LINE



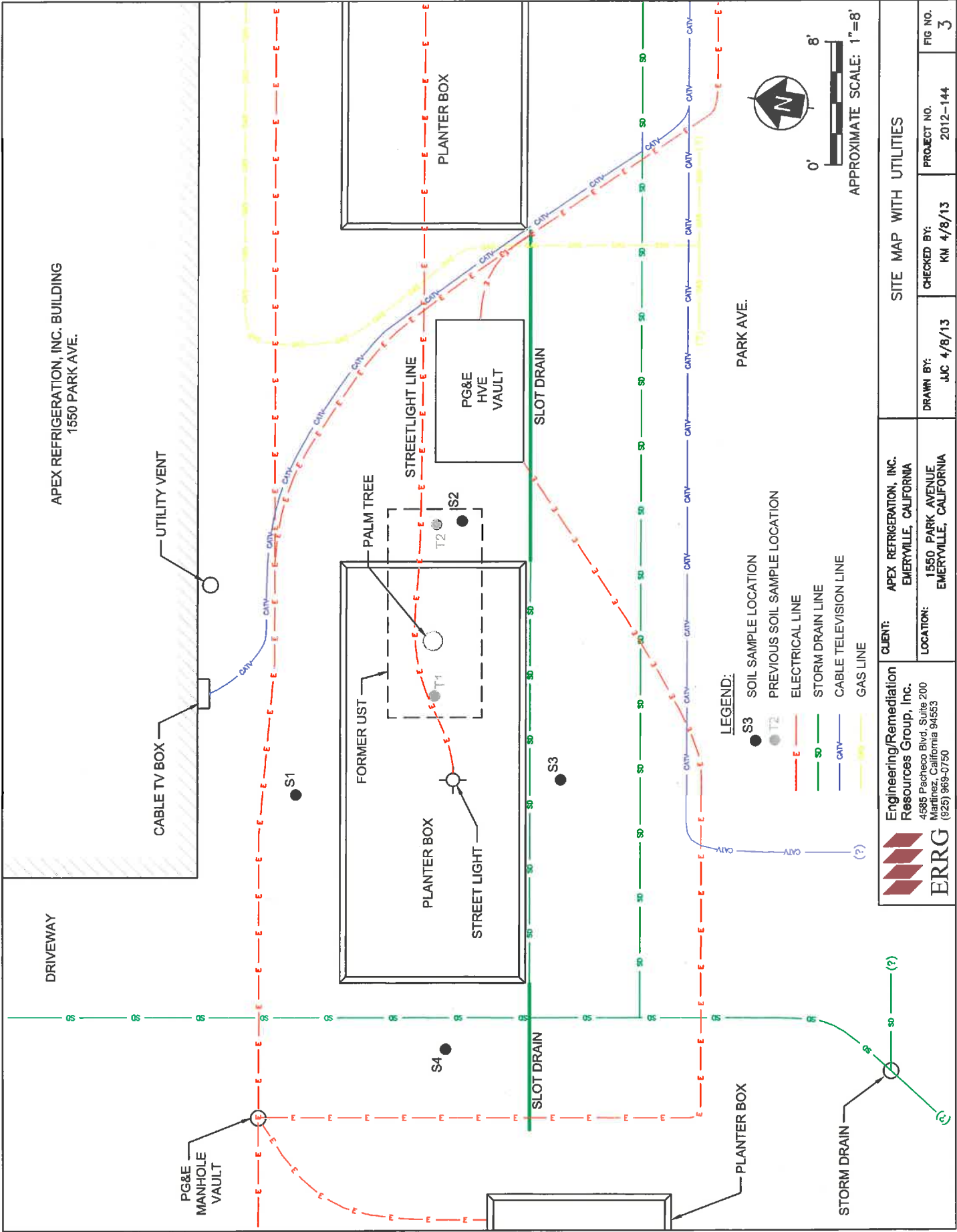
**ERRG**  
Engineering/Remediation Resources Group, Inc.  
4585 Pecheco Blvd, Suite 200  
Merced, California 94553  
(925) 966-0750

CLIENT: APEX REFRIGERATION, INC.  
EMERYVILLE, CALIFORNIA  
LOCATION: 1550 PARK AVENUE  
EMERYVILLE, CALIFORNIA

DRAWN BY: JUC 4/8/13  
CHECKED BY: KM 4/8/13  
PROJECT NO. 2012-144  
FIG NO. 2

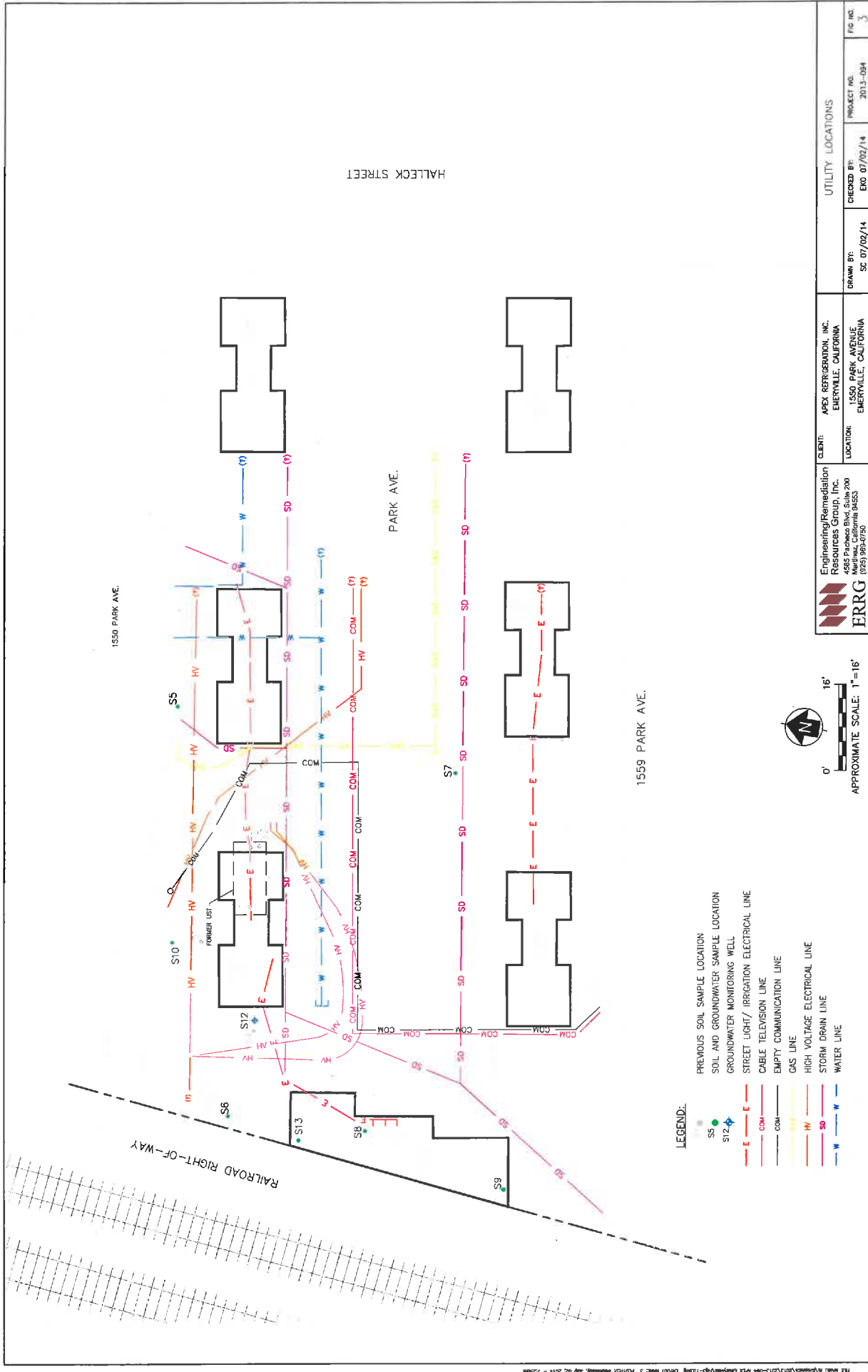
TPH CONCENTRATIONS IN SOIL AND GROUNDWATER





|  |                                |                                 |                                 |
|--|--------------------------------|---------------------------------|---------------------------------|
| <b>Engineering/Remediation Resources Group, Inc.</b><br>4885 Pacheco Blvd, Suite 200<br>Martinez, California 94553<br>(925) 969-0750 |                                | <b>ERRG</b>                     |                                 |
| <b>CLIENT:</b><br>APEX REFRIGERATION, INC.<br>EMERYVILLE, CALIFORNIA   | <b>SITE MAP WITH UTILITIES</b> |                                 |                                 |
| <b>LOCATION:</b><br>1550 PARK AVENUE<br>EMERYVILLE, CALIFORNIA   | <b>DRAWN BY:</b><br>JJC 4/8/13 | <b>CHECKED BY:</b><br>KM 4/8/13 | <b>PROJECT NO.:</b><br>2012-144 |
|  |                                |                                 | <b>FIG. NO.:</b><br>3           |





**LEGEND:**

- PREVIOUS SOIL SAMPLE LOCATION
- SOIL AND GROUNDWATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- STREET LIGHT/ IRRIGATION ELECTRICAL LINE
- CABLE TELEVISION LINE
- EMPTY COMMUNICATION LINE
- GAS LINE
- HIGH VOLTAGE ELECTRICAL LINE
- STORM DRAIN LINE
- WATER LINE



**ERRG**  
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 Emeryville, CA 94608  
 (925) 883-4790

CLIENT: APEX REFRIGERATION, INC.  
 EMERYVILLE, CALIFORNIA  
 LOCATION: 1550 PARK AVENUE  
 EMERYVILLE, CALIFORNIA

| UTILITY LOCATIONS     |                          |
|-----------------------|--------------------------|
| DRAWN BY: SC 07/02/14 | CHECKED BY: EMO 07/02/14 |
| PROJECT NO.: 2013-094 | FIG. NO.: 3              |

# ATTACHMENT 9

**Project: Apex Refrigeration**

Boring: **S1** Pg. **1** of **1**

Drilling Co: **Gregg Drilling**

Drilling Method: **Hand Auger**

Date Started: **3/1/13**

Location: \_\_\_\_\_












Sampler: \_\_\_\_\_

Date Completed: **3/1/13**

Logged by: **B. Foster**

Reviewed by: **P. Skorge**

Water Level (below ground surface)  $\nabla$  During Drilling **3.5**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FIDIPID (ppm) | SAMPLES | GRAPHIC LOG   | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|---|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |   |  |             | GR             | SA | FI  |          |
| 1           |            |            |               |         |    | CONCRETE   | CONCRETE    |                |    |     |          |
| 1           |            |            |               |         |    | Silty, Sandy GRAVEL (GM) with CONCRETE; dark grayish-brown (10YR 4/2); aggregate-silty matrix; moist; very dense; no odor; some staining |             | 25             | 15 | 60  | M        |
| 2           |            |            |               |         |    |  |             |                |    |     |          |
| 3           |            |            |               |         |    |  |             |                |    |     |          |
| 3.5         |            |            |               |         | $\nabla$  | wet; standing water in borehole  | GM          |                |    |     | W        |
| 4           |            |            |               |         |    | Sample Collected: APEX-S1-3.5-030113 (soil)  |             |                |    |     |          |
| 5           |            |            |               |         |    |  |             |                |    |     |          |
| 6           |            |            |               |         |   | CLAY (CL); black (10YR 2/1); wet; slight hydrocarbon odor; low plasticity; soft  |             |                |    | 100 | W        |
| 7           |            |            |               |         |  | dark gray (10YR 4/1); dry; very stiff  |             |                |    |     | D        |
| 8           |            |            |               |         |  |  | CL          |                |    |     |          |
| 9           |            |            |               |         |  | Sample Collected: APEX-S1-9.0-030113 (soil)  |             |                |    |     |          |
| 10          |            |            |               |         |  | Sample Collected: APEX-S1-GW-030113 (water)  |             |                |    |     |          |
| 10          |            |            |               |         |   | Bottom of boring at 10 feet  |             |                |    |     |          |

2012-144 APEX.GPJ 4/12/13



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**Lithologic Log for S1  
 Apex Refrigeration**

Project Location:  
**15550 Park Ave, Emeryville, CA**

Project No.  
**2012-144**



**Project:** Apex Refrigeration

**Boring:** S2

Pg. 1 of 1

**Drilling Co:** Gregg Drilling

**Drilling Method:** Hand Auger

**Date Started:** 3/1/13

**Location:**

**Sampler:**

**Date Completed:** 3/1/13

**Logged by:** B. Foster

**Reviewed by:** P. Skorge

Water Level (below ground surface) ∇ During Drilling 3.5

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |  |             | GR             | SA | FI  |          |
|             |            |            |               |         |             | CONCRETE with 2" AB Gravel Base  | CONCRETE    |                |    |     |          |
| 1           |            |            |               |         |             | GRAVEL (GM) with brown silty matrix (10YR 4/3); slightly moist; very dense; no odor; fine sands throughout   |             | 35             | 15 | 50  | M        |
| 2           |            |            |               |         |             |  |             |                |    |     |          |
| 3           |            |            |               |         |             |  |             |                |    |     |          |
| 4           |            |            |               |         |             | fill material becomes saturated  | GM          |                |    |     | S        |
| 5           |            |            |               |         |             |  |             |                |    |     |          |
| 6           |            |            |               |         |             | CLAY (CL); black (10YR 2/1); slightly moist; very faint hydrocarbon odor; low to medium plasticity; stiff<br>Sample Collected: APEX-S2-5.5-030113 (soil) |             |                |    | 100 | M        |
| 7           |            |            |               |         |             |  |             |                |    |     |          |
| 8           |            |            |               |         |             |  | CL          |                |    |     |          |
| 9           |            |            |               |         |             | increased plasticity; trace coarse sand; angular<br>Sample Collected: APEX-S2-9.0-030113 (soil)  |             |                | 5  | 95  |          |
| 10          |            |            |               |         |             | Sample Collected: APEX-S2-GW-030113 (water)  |             |                |    |     |          |
|             |            |            |               |         |             | Bottom of boring at 10 feet  |             |                |    |     |          |

2012-144 APEX.GPJ 4/12/13

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**Lithologic Log for S2  
Apex Refrigeration**

Project Location:  
**15550 Park Ave, Emeryville, CA**

Project No.  
**2012-144**

**Project: Apex Refrigeration**

**Boring: S3**

Pg. 1 of 1

Drilling Co: **Gregg Drilling**

Drilling Method: **Hand Auger**

Date Started: **3/1/13**

Location: \_\_\_\_\_

Sampler: \_\_\_\_\_

Date Completed: **3/1/13**

Logged by: **B. Foster**

Reviewed by: **P. Skorge**

Water Level (below ground surface)  $\nabla$  During Drilling 4

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION   | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|---|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |   |             | GR             | SA | FI  |          |
|             |            |            |               |         |             | CONCRETE with 1.5" AB Gravel Base   | CONCRETE    |                |    |     |          |
| 1           |            |            |               |         |             | Silty GRAVEL FILL (GM); 1.5-2" AB gravel with silty matrix  | GM          |                |    |     |          |
| 2           |            |            |               |         |             |   |             |                |    |     |          |
| 3           |            |            |               |         |             | CLAY (CL); very dark gray (2.5YR 3/1); moist; medium to high plasticity; firm; trace brown silt   |             |                |    |     |          |
| 4           |            |            |               |         |             | fill material becomes saturated<br>Sample Collected: APEX-S3-3.5-030113 (soil)<br>black (2.5Y 1/1); wet; medium plasticity; stiff; trace coarse sand; angular; slight hydrocarbon odor; sheen on wet clay |             |                |    | 100 | M        |
| 5           |            |            |               |         |             |   |             |                |    |     | W        |
| 6           |            |            |               |         |             |   |             |                |    |     |          |
| 7           |            |            |               |         |             |   | CL          |                |    |     |          |
| 8           |            |            |               |         |             | less moist; trace roots/fibrous materials throughout  |             |                |    |     |          |
| 9           |            |            |               |         |             | Sample Collected: APEX-S3-9.0-030113 (soil)   |             |                |    | 100 | M        |
| 10          |            |            |               |         |             | Sample Collected: APEX-S3-GW-030113 (water)   |             |                |    |     |          |
|             |            |            |               |         |             | Bottom of boring at 10 feet   |             |                |    |     |          |

2012-144 APEX.GPJ 4/12/13



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**Lithologic Log for S3  
 Apex Refrigeration**

Project Location:

**15550 Park Ave, Emeryville, CA**

Project No.

**2012-144**

**Project:** Apex Refrigeration

**Boring:** S4

Pg. 1 of 1

**Drilling Co:** Gregg Drilling

**Drilling Method:** Hand Auger

**Date Started:** 3/1/13

**Location:**

**Sampler:**

**Date Completed:** 3/1/13

**Logged by:** B. Foster

**Reviewed by:** P. Skorge

Water Level (below ground surface) ∇ During Drilling 4

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION   | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|---|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |   |             | GR             | SA | FI  |          |
|             |            |            |               |         |             | CONCRETE with 1.5" AB Gravel Base   | CONCRETE    |                |    |     |          |
| 1           |            |            |               |         |             | Sandy SILT with GRAVEL (ML); very dark grayish-brown; fine; moist; no odor; medium plasticity   | GM          | 20             | 30 | 50  | M        |
| 2           |            |            |               |         |             |   |             |                |    |     |          |
| 3           |            |            |               |         |             | CLAY (CL); very dark gray (10YR 3/1); moist; slight hydrocarbon odor; medium to high plasticity; soft; trace brown silt; slight sheen on wet clay |             |                |    | 100 | M        |
| 4           |            |            |               |         |             |   |             |                |    |     |          |
| 5           |            |            |               |         |             | Sample Collected: APEX-S4-4.5-030113 (soil)   |             |                |    |     |          |
| 6           |            |            |               |         |             | very dark gray-brown (2.5Y 3/2); less moist; olive brown (4/3) staining   | CL          |                |    | 100 | M        |
| 7           |            |            |               |         |             |   |             |                |    |     |          |
| 8           |            |            |               |         |             | trace roots and fibrous materials   |             |                |    |     |          |
| 9           |            |            |               |         |             | less moist; lean; medium plasticity; stiff<br>Sample Collected: APEX-S4-8.5-030113 (soil)   |             |                |    |     |          |
| 10          |            |            |               |         |             | Sample Collected: APEX-S4-GW-030113 (water)   |             |                |    |     |          |
|             |            |            |               |         |             | Bottom of boring at 10 feet   |             |                |    |     |          |

2012-144 APEX.GPJ 4/12/13



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**Lithologic Log for S4  
 Apex Refrigeration**

Project Location:

15550 Park Ave, Emeryville, CA

Project No.

2012-144

**Project: Data Gaps Investigation**

Boring: **S5** Pg. 1 of 1

Drilling Co: Gregg Drilling and Testing, Inc. Drilling Method: Hand Auger Date Started: 4/16/14  
 Location: Near building, east of former UST Sampler: Hand Auger Date Completed: 4/16/14  
 Logged by: Brianne Foster Reviewed by: \_\_\_\_\_  
 During Drilling 4.5 ft

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |  |             | GR             | SA | FI  |          |
|             |            |            |               |         |             | Concrete (6.5")  | CONC.       |                |    |     |          |
|             |            |            |               |         |             | Aggregate Base (3")  | FILL        |                |    |     |          |
| 1           |            | 0.0        |               |         |             | CLAY; very dark gray (10YR 3/1); slightly moist; medium plasticity; firm; brick fragments to 1.5'.                                   |             |                |    | 100 | M        |
| 2           |            | 0.2        |               |         |             | Becomes firm to soft.  |             |                |    |     |          |
| 3           |            | 0.4        |               |         |             |  |             |                |    |     |          |
| 4           |            | 37.4       |               |         |             | Color change to dark grayish black (10YR 2/1); slight fuel odor; moist.  |             |                |    | 100 | M        |
| 5           |            | 54.6       |               |         |             | Sample collected: APEX-S5-4.5-041714 (soil)  | CL          |                |    |     |          |
| 6           |            | 198        |               |         |             | Color change to gray green (GLE Y 3/2); chalky nodules appear.   |             |                |    |     |          |
| 7           |            | 114        |               |         |             | CLAY; black (10YR 2/1); slightly moist; medium plasticity; firm; strong fuel odor with slight sheen.                                 |             |                |    | 100 | M        |
|             |            | 9.3        |               |         |             | Sample collected: APEX-S5-GW-041714 (water)  |             |                |    |     |          |
| 8           |            | 1.4        |               |         |             | CLAY; dark grayish brown (2.5Y 3/2) with olive brown staining and nodules; dry; medium plasticity; firm; slight fuel odor; no sheen. |             |                |    | 100 | D        |
|             |            | 0.7        |               |         |             | Sample collected: APEX-S5-7.5-041714 (soil)  |             |                |    |     |          |
| 9           |            |            |               |         |             | Sample collected: APEX-S5-9.0-041714 (soil)  |             |                |    | 100 | D        |
|             |            |            |               |         |             | Bottom of boring at 9 feet bgs   |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 6/1/14



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**Lithologic Log for S5  
 Apex Refrigeration**

Project Location:  
**1550 Park Avenue, Emeryville, CA 94608**

Project No.  
**2013-094**

**Project: Data Gaps Investigation**

Boring: **S6**

Pg. 1 of 1

Drilling Co: **Gregg Drilling and Testing, Inc.**

Drilling Method: **Hand Auger**

Date Started: **4/16/14**

Location: **Against property boundary, on concrete**

Sampler: **Hand Auger**

Date Completed: **4/16/14**

Logged by: **Brianne Foster**

Reviewed by: \_\_\_\_\_

During Drilling **4.5 ft**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |  |             | GR             | SA | FI  |          |
| 0           |            |            |               |         |             | Concrete (10" concrete with 12" aggregate base)                                      | CONC.       |                |    |     |          |
| 1           |            |            |               |         |             | Sandy GRAVEL with Silt (aggregate Base); dark gray brown; moist; very dense.         | GM          | 60             | 25 | 15  | M        |
| 2           |            |            |               |         |             | CLAY; very dark gray (10YR 3/1); moist; low plasticity.                              |             |                |    | 100 | M        |
| 3           |            |            |               |         |             |  |             |                |    |     |          |
| 4           |            |            |               |         |             | Becomes slightly moist; brick fragments present from 3.5' - 4'.                      | CL          |                |    |     | M        |
| 5           |            |            |               |         |             | Becomes moist; very slight fuel odor.<br>Sample collected: APEX-S6-4.5-041614 (soil) |             |                |    |     | M        |
| 6           |            |            |               |         |             | Sample collected: APEX-S6-GW-041614 (water)  |             |                |    |     |          |
| 6           |            |            |               |         |             | Refusal at 6', obstruction in borehole<br>Bottom of boring at 6 feet bgs             |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 8/11/14



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**Lithologic Log for S6  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**

**Project: Data Gaps Investigation**

Boring: **S7**

Pg. 1 of 1

Drilling Co: **Gregg Drilling and Testing, Inc.**

Drilling Method: **Hand Auger**

Date Started: **4/17/14**

Location: \_\_\_\_\_

Sampler: **Hand Auger**

Date Completed: **4/17/14**

Logged by: **Brianne Foster**

Reviewed by: \_\_\_\_\_

During Drilling **5.8 ft**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |                     |  |             | GR             | SA | FI  |          |
|             |            |            |               |                     | Concrete (9")  | CONC.       |                |    |     |          |
| 1           |            |            | 0.1           |                     | Silty GRAVEL with Sand (fill); grayish brown (2.5Y 5/2).   | GM          |                |    |     |          |
| 2           |            |            | 0             |                     | CLAY; black (2.5Y 2.5/1); very slightly moist; organic odor; soft to firm.   |             |                |    | 100 | M        |
| 3           |            |            | 0             |                     |  |             |                |    |     |          |
| 4           |            |            | 0             |                     |  |             |                |    |     |          |
| 5           |            |            | 0             |                     | Sample collected: APEX-S7-5.5-041714 (soil)  |             |                |    |     |          |
| 6           |            |            |               |                     | Becomes wet.   |             |                |    |     |          |
| 7           |            |            | 0             |                     | Sample collected: APEX-S7-GW-041714 (water)  | CL          |                |    |     |          |
| 8           |            |            |               |                     |  |             |                |    |     |          |
| 9           |            |            | 0             |                     | CLAY; dark gray brown (2.5Y 4/2); slightly moist; low plasticity; soft to firm; trace fibrous roots throughout.<br>Sample collected: APEX-S7-9.0-041714 (soil) |             |                |    | 100 |          |
|             |            |            |               |                     | Bottom of boring at 9 feet bgs   |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 6/1/14



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**Lithologic Log for S7  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**

**Project: Data Gaps Investigation**

Boring: **S8**

Pg. 1 of 1

Drilling Co: **Gregg Drilling and Testing, Inc.**

Drilling Method: **Hand Auger**

Date Started: **4/16/14**

Location: **In planter north of irrigation boxes**

Sampler: **Hand Auger**

Date Completed: **4/16/14**

Logged by: **Brianne Foster**

Reviewed by: \_\_\_\_\_

During Drilling **4.5 ft**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |  |             | GR             | SA | FI  |          |
|             |            |            |               |         |             | Surface cover of mulch and landscape vegetation.   |             | 25             | 50 | 25  | M        |
| 1           |            | 0          |               |         |             | Silty SAND (SM) with trace Gravel (silty sand loam); very dark grayish brown (2.5Y 3/2); fine to coarse gravel (< 2"); very moist; medium dense; contains mulch. | SM          |                |    |     |          |
| 2           |            | 0          |               |         |             | Gravel content decreases.  | SM          | 5              | 65 | 30  | M        |
| 3           |            | 0          |               |         |             | CLAY (CL); black (10YR 2/1); slightly moist; stiff; low to medium plasticity.  |             |                |    | 100 | M        |
| 4           |            | 0          |               |         |             | Becomes soft, moisture increases.<br>Sample collected: APEX-S8-4.5-041614 (soil)   |             |                |    |     |          |
| 5           |            | 0          |               |         |             | CLAY (CL); very dark gray (10YR 3/1); wet; low plasticity; soft; trace fines in clay   |             |                |    | 100 | W        |
| 6           |            | 0          |               |         |             | Sample collected: APEX-S8-GW-041614 (water)  | CL          |                |    |     |          |
| 7           |            | 0          |               |         |             | Becomes dark gray (10YR 4/1); moist; low to medium plasticity; stiff.<br>Sample collected: APEX-S8-7.5-041614 (soil)   |             |                |    | 100 | M        |
| 8           |            | 0          |               |         |             | Mottling with trace Silt; olive brown (2.5 4/3); trace roots and fibrous organics.   |             | 5              | 95 |     | M        |
| 9           |            | 0          |               |         |             | Sample collected: APEX-S8-9.0-041614 (soil)  |             |                |    |     |          |
|             |            |            |               |         |             | Bottom of boring at 9 feet bgs   |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 6/11/14



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**Lithologic Log for S8  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**

**Project: Data Gaps Investigation**

Boring: **S9**

Drilling Co: Gregg Drilling and Testing, Inc.

Drilling Method: Hand Auger

Date Started: 4/17/14

Location: In southwest corner of planter

Sampler: Hand Auger

Date Completed: 4/17/14

Logged by: Brianne Foster

Reviewed by: \_\_\_\_\_

During Drilling 5.2 ft

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |  |             | GR             | SA | FI  |          |
| 0           |            |            |               |         |             | Silty SAND (SM) with Gravel (silty sand loam); fine to coarse gravels (< 2"); dark gray brown (2.5Y 3/2); very moist; dense. | SM          | 20             | 50 | 30  | M        |
| 1           |            |            |               |         |             |  |             |                |    |     |          |
| 2           |            |            |               |         |             |  |             |                |    |     |          |
| 3           |            |            |               |         |             | CLAY (CL); very dark gray (2.5Y 3/1); moist; medium plasticity; stiff.   | CL          |                |    | 100 | M        |
| 4           |            |            |               |         |             |  |             |                |    |     |          |
| 5           |            |            |               |         |             | Sample collected: APEX-S9-4.5-041614 (soil)<br>Becomes very moist.   | CL          |                |    | 100 | M        |
| 6           |            |            |               |         |             | Becomes wet.   |             |                |    |     | W        |
| 7           |            |            |               |         |             | Sample collected: APEX-S9-GW-041614 (water)  | CL          |                |    |     |          |
| 8           |            |            |               |         |             | CLAY (CL); dark gray (10YR 3/1); moist; low to medium plasticity; firm.<br>Sample collected: APEX-S9-7.5-041614 (soil)       |             |                |    |     | M        |
| 9           |            |            |               |         |             | Olive brown Silt mottling develops; fibrous roots present.   |             |                |    |     | M        |
|             |            |            |               |         |             | Sample collected: APEX-S9-9.0-041614 (soil)  |             |                |    |     |          |
|             |            |            |               |         |             | Bottom of boring at 9 feet bgs   |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 6/11/14



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**Lithologic Log for S9  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**



**Project: Data Gaps Investigation**

Boring: **S10**

Pg. 1 of 1

Drilling Co: **Gregg Drilling and Testing, Inc.**

Drilling Method: **Hand Auger**

Date Started: **4/17/14**

Location: **23 inches away from building, in line with S1**

Sampler: **Hand Auger**

Date Completed: **4/17/14**

Logged by: **Brianne Foster**

Reviewed by:

During Drilling **4.1 ft**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/PID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|---------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |               |         |             |  |             | GR             | SA | FI  |          |
|             |            |            |               |         |             | Concrete (8")  | CONC.       |                |    |     |          |
|             |            |            |               |         |             | Aggregate Base (3")  | FILL        |                |    |     |          |
| 1           |            | 0          |               |         |             | Silty Sandy GRAVEL (GM); dark grayish brown (10YR 4/2); moist; very dense.   | GM          | 50             | 25 | 25  | M        |
| 2           |            | 0          |               |         |             | CLAY (CL); very dark gray (10YR 3/1); moist; low plasticity; soft.   |             |                |    | 100 | M        |
| 3           |            | 0          |               |         |             | Very dark brown (10YR 3/2) silt stringers appear.  |             |                |    |     |          |
| 4           |            | 124        |               |         |             | CLAY (CL) black 10YR 2/1; moist; strong fuel odor from 4 to 4.5'; low plasticity; soft.  |             |                |    |     |          |
| 5           |            | 156        |               |         |             | Becomes wet.<br>Sample collected: APEX-S10-4.5-041714 (soil)   |             |                |    |     | W        |
| 6           |            | 59.4       |               |         |             | Sample collected: APEX-S10-GW-041714 (water)   | CL          |                |    |     |          |
| 7           |            | 12.7       |               |         |             | Becomes very dark gray (2.5Y 3/1); moist; fuel odor present  |             |                |    |     | M        |
| 8           |            | 7.5        |               |         |             | Sample collected: APEX-S10-8.0-041714 (soil)<br>Becomes dry; firm to stiff.  |             |                |    |     | D        |
| 9           |            | 3.4        |               |         |             | Becomes grayish green (GLEY 4/5G); chalky nodules present; roots and organic fibers present.<br>Sample collected: APEX-S10-9.0-041714 (soil) |             |                |    |     |          |
|             |            |            |               |         |             | Bottom of boring at 9 feet bgs   |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 6/11/14



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**Lithologic Log for S10  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**

**Project: Data Gaps Investigation**

Boring: **S12** Pg. 1 of 1

Drilling Co: **Gregg Drilling and Testing, Inc.**

Drilling Method: **Hand Auger**

Date Started: **4/16/14**

Location: **In planter box, 1.5' east of S4**

Sampler: **Hand Auger**

Date Completed: **4/16/14**

Logged by: **Brianne Foster**

Reviewed by: \_\_\_\_\_

During Drilling **3 ft**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID(PID) (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION  | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |
|-------------|------------|------------|----------------|---------|-------------|--|-------------|----------------|----|-----|----------|
|             |            |            |                |         |             |  |             | GR             | SA | FI  |          |
| 0           |            |            |                |         |             | Concrete (9")  | CONC.       |                |    |     |          |
| 1           |            |            | 0              |         |             | Sandy SILT with gravel (ML); fine to coarse gravels (< 2"); dark gray brown (10YR 4/2); moist.                   | MLS         | 20             | 40 | 40  | M        |
| 2           |            |            |                |         |             | Bentonite chips  |             |                |    |     |          |
| 2           |            |            |                |         |             | 2/12 Sand filter pack  |             |                |    |     |          |
| 3           |            |            | 0              |         |             | SAND/ GRAVEL (SW-GW) with Silt (fill).<br>Becomes saturated.   | GW-SW       | 40             | 40 | 20  | M<br>S   |
| 4           |            |            | 0.4            |         |             |  |             | 40             | 40 | 20  | W        |
| 5           |            |            | 44.7           |         |             | Well screen, 1.5" diameter pre-pack well   |             |                |    | 100 | W        |
| 6           |            |            | 20.4           |         |             | CLAY (CL); black (10YR 2/1); wet; strong fuel odor; sheen; soft to firm.   | CL          |                |    |     | M        |
| 7           |            |            | 0.8            |         |             | Becomes very dark grayish brown (2.5Y 3/2); moist; firm.<br>Light olive brown (2.5Y 5/4) silt mottling develops. |             |                |    |     |          |
|             |            |            |                |         |             | Bottom of boring at 7.5 feet bgs   |             |                |    |     |          |

2013-094 APEX EMERYVILLE.GPJ 6/11/14



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**Lithologic Log and Well Construction Details for S12  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**

**Project: Data Gaps Investigation**

Boring: **S13**

Pg. 1 of 1

Drilling Co: **Gregg Drilling and Testing, Inc.**

Drilling Method: **Hand Auger**

Date Started: **4/17/14**

Location: **Between S6 and S8, in planter**

Sampler: **Hand Auger**

Date Completed: **4/17/14**

Logged by: **Brianne Foster**

Reviewed by: \_\_\_\_\_

During Drilling **4.4 ft**

| DEPTH - FT. | BLOW COUNT | % RECOVERY | FID/ID (ppm) | SAMPLES | GRAPHIC LOG | DESCRIPTION   | USCS SYMBOL | ESTIMATED % OF |    |     | MOISTURE |   |
|-------------|------------|------------|--------------|---------|-------------|---|-------------|----------------|----|-----|----------|---|
|             |            |            |              |         |             |   |             | GR             | SA | FI  |          |   |
| 0           |            |            |              |         |             | Silty SAND with Gravel (SM); fine to coarse gravels (< 2"); moist; medium density; sandy loam mulch.    | SM          | 25             | 50 | 25  | M        |   |
| 1           |            |            |              |         |             |   |             |                |    |     |          |   |
| 2           |            |            |              |         |             | CLAY (CL); very dark gray (2.5Y 3/1); slightly moist; medium plasticity; stiff.                         | CL          |                |    | 100 | M        |   |
| 3           |            |            |              |         |             | Becomes moist; soft.  |             |                |    |     |          |   |
| 4           |            |            |              |         |             | Becomes dark grayish brown (2.5Y 4/2).<br>Sample collected: APEX-S13-4.0-041714 (soil)                  |             |                |    |     |          | W |
| 5           |            |            |              |         |             | Becomes wet.  |             |                |    |     |          |   |
| 6           |            |            |              |         |             | Becomes black (2.5Y 2.5/1); very moist; low plasticity.<br>Sample collected: APEX-S13-GW-041714 (water) |             |                |    |     |          | M |
| 7           |            |            |              |         |             | Becomes firm.<br>Sample collected: APEX-S13-7.5-041714 (soil)   |             |                |    |     |          |   |
| 8           |            |            |              |         |             | Becomes dark grayish brown (10YR 4/2); slightly moist; soft to firm.                                    |             |                |    |     |          |   |
| 9           |            |            |              |         |             | Sample collected: APEX-S13-9.0-041714 (soil)  |             |                |    |     |          |   |
|             |            |            |              |         |             | Bottom of boring at 9 feet bgs  |             |                |    |     |          |   |

2013-094 APEX EMERYVILLE.GPJ 6/11/14



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**Lithologic Log for S13  
Apex Refrigeration**

Project Location:

**1550 Park Avenue, Emeryville, CA 94608**

Project No.

**2013-094**

# ATTACHMENT 10

Table 2. Grab Groundwater Analytical Results

| Location | Sample Date | Sample Name        | Depth (feet bgs) | Total Dissolved Solids (mg/L) |                        | Total Petroleum Hydrocarbons (by EPA Method 8015B) (µg/L) |                    |                   | Purgeable Aromatics (Select VOCs by EPA Method 8260B) (µg/L) |         |         |              |             |           |             |                |              |          |              |            | Priority Pollutant Polycyclic Aromatic Hydrocarbons (EPA Method 8270 SIM) (µg/L) |        |                      |          |                        |                        |                  |                          |                         |                        |  |  |
|----------|-------------|--------------------|------------------|-------------------------------|------------------------|---|--------------------|-------------------|--|---------|---------|--------------|-------------|-----------|-------------|----------------|--------------|----------|--------------|------------|--|--------|----------------------|----------|------------------------|------------------------|------------------|--------------------------|-------------------------|------------------------|--|--|
|          |             |                    |                  | Total Dissolved Solids        | Total Dissolved Solids | TPH-gasoline  | TPH-diesel         | TPH-motor oil     | MTBE   | Benzene | Toluene | Ethylbenzene | m,p-Xylenes | o-Xylenes | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene   | Pyrene | Benzo (a) anthracene | Chrysene | Benzo (b) fluoranthene | Benzo (k) fluoranthene | Benzo (a) pyrene | Indeno (1,2,3-cd) pyrene | Dibenz (a,h) anthracene | Benzo (g,h,i) perylene |  |  |
| S1       | 3/1/2013    | Apex-S1-GW-030113  | 3.5-9.0          | NA                            | NA                     | 5,600 Y   | 31,000             | 2,500             | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S2       | 3/1/2013    | Apex-S2-GW-030113  | 3.5-9.0          | NA                            | NA                     | 9,300 Y   | 15,000             | 680               | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S3       | 3/1/2013    | Apex-S3-GW-030113  | 4.0-9.0          | NA                            | NA                     | 7,200 Y   | 9,100              | 330               | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S4       | 3/1/2013    | Apex-S4-GW-030113  | 4.0-9.0          | NA                            | NA                     | 7,100 Y   | 83,000             | 5,200             | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S5       | 4/17/2014   | APEX-S5-GW-041714  | 4.5-7.0          | NA                            | NA                     | 4,500 Y   | 13,000             | 630               | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S6       | 4/16/2014   | APEX-S6-GW-041614  | 4.5-6.0          | NA                            | NA                     | <50   | 94 Y               | <290              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S7       | 4/17/2014   | APEX-S7-GW-041714  | 5.5-7.0          | NA                            | NA                     | <50   | <53                | <290              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S8       | 4/16/2014   | APEX-S8-GW-041614  | 4.5-6.0          | NA                            | NA                     | <50   | <49                | <290              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S9       | 4/16/2014   | APEX-S9-GW-041614  | 4.75-6.0         | NA                            | NA                     | <50   | <49                | <290              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S10      | 4/17/2014   | APEX-S10-GW-041714 | 4.0-6.0          | NA                            | NA                     | 190 Y   | <62                | <310              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S11      | 4/17/2014   | APEX-S11-GW-041714 | 4.0-6.0          | NA                            | NA                     | 180 Y   | 98 Y               | <290              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S12      | 4/17/2014   | APEX-S12-GW-041714 | 4.25-6.0         | NA                            | NA                     | <50 <sup>5</sup>  | 290 Y <sup>6</sup> | <300 <sup>5</sup> | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| S13      | 4/17/2014   | APEX-S13-GW-041714 | 4.25-6.0         | NA                            | NA                     | <50 <sup>5</sup>  | 290 Y <sup>6</sup> | <300 <sup>5</sup> | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| MW1      | 9/26/2014   | APEX-MW1-092614    | 2.0-7.0          | 1,220                         | 170 Y                  | 350   | <300               | <300              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| MW1      | 9/26/2014   | APEX-MW1-092614-FD | 2.0-7.0          | 1,280                         | 160 Y                  | 350   | <300               | <300              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| MW1      | 12/29/2014  | APEX-MW1-122914    | 2.0-7.0          | 220                           | 63 Y                   | 250 Y   | <300               | <300              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |
| MW1      | 12/29/2014  | APEX-MW1-122914-FD | 2.0-7.0          | 240                           | 98 Y                   | 250 Y   | <300               | <300              | 1,800  | 27      | 130     | 43           | 700         | 1,750     | 1,750       | 100            | 100          | 100      | 100          | 100        | 2.0  | 0.027  | 0.35                 | 0.056    | 0.056                  | 0.014                  | 0.056            | 0.016                    | 0.10                    |                        |  |  |

Notes:  
 1 = Analysis run with silica gel cleanup  
 2 = SFRMOCB ESL, Table F-1a, "Groundwater Screening Levels (groundwater is a current or potential drinking water resource)", December 2013.  
 3 = SFRMOCB ESL, Table F-1b, "Groundwater Screening Levels (groundwater is not a current or potential drinking water resource)", December 2013.  
 4 = SFRMOCB Basin Plan, Table 3-5: Water Quality Objectives for Municipal Supply  
 5 = prepared and analyzed outside of hold time  
 6 = Result is greater than the laboratory reporting limits for the given parameter but does not exceed listed comparison value  
**Blue** = Result exceeds parameter objective in SFRMOCB Basin Plan, Table 3-5: Water Quality Objectives for Municipal Supply  
**Red** = Result is less than SFRMOCB ESL for "is not a drinking water resource" but greater than for "is a drinking water source"  
**Green** = Sample result exceeds the SFRMOCB ESL  
 bgs = below ground surface  
 EPA = U.S. Environmental Protection Agency  
 ESL = environmental screening levels  
 MTRB = methyl tertiary butyl ether  
 NA = not analyzed  
 NL = not listed  
 SFRMOCB = San Francisco Bay Regional Water Quality Control Board  
 TPH = total petroleum hydrocarbons  
 VOCs = volatile organic compounds  
 Y = sample resembles chromatographic pattern, which does not resemble standard  
 <0.30 = sample result is less than the laboratory reporting limit for the given analysis



Depth-to-Water and Depth-to-Product Measurement

Apex Former UST Site

1550 Park Avenue

Emeryville, CA

~~1550~~ (beep)

| Well I.D. | Date<br>(MM/DD/YY) | Time<br>(HHMM) | Depth to<br>Product<br>(feet btoc) | Depth to<br>Water<br>(feet btoc) | Depth<br>to Bottom<br>(feet btoc) | Comments |
|-----------|--------------------|----------------|------------------------------------|----------------------------------|-----------------------------------|----------|
| S12/MW-1  | 09/26/14           | 1449           | NONE                               | 2.53                             | 6.91                              | No Sheen |

**Depth-to-Water and Depth-to-Product Measurement**  
**Apex Former UST Site**  
**1550 Park Avenue**  
**Emeryville, CA**

| Well I.D. | Date<br>(MM/DD/YY) | Time<br>(HHMM) | Depth to<br>Product<br>(feet btoc) | Depth to<br>Water<br>(feet btoc) | Depth<br>to Bottom<br>(feet btoc) | Comments |
|-----------|--------------------|----------------|------------------------------------|----------------------------------|-----------------------------------|----------|
| S12/MW-1  | 12/29/14           | 1345           | No Prod.                           | 2.13                             | 6.93                              | No sheen |

# ATTACHMENT 11



TABLE 1  
SUMMARY OF PIT BOTTOM SOIL SAMPLE ANALYTICAL RESULTS

| <u>Sample ID</u> | <u>Sample Date</u> | <u>TPH-D</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-<br/>benzene</u> | <u>Total<br/>Xylenes</u> | <u>EDB</u> | <u>1,2-DCA</u> |
|------------------|--------------------|--------------|----------------|----------------|---------------------------|--------------------------|------------|----------------|
| T1-7.0           | 2/8/2010           | 15, a        | ND<0.005       | ND<0.005       | ND<0.005                  | ND<0.005                 | ND<0.004   | ND<0.004       |
| T2-6.0           | 2/8/2010           | 5.8, b       | ND<0.005       | ND<0.005       | ND<0.005                  | ND<0.005                 | ND<0.004   | ND<0.004       |

**NOTES**  
 TPH-G = Total Petroleum Hydrocarbons as Gasoline.  
 EDB = 1,2-Dibromoethane.  
 1,2-DCA = 1,2-Dichloroethane.  
 ND = Not Detected.  
 a = Laboratory analytical note: diesel-range compounds are significant; no recognizable pattern.  
 b = Laboratory analytical note: aged diesel is significant.  
 All results reported in milligrams per kilogram (mg/kg) unless otherwise noted.

## SUMMARY OF SOIL STOCKPILE SAMPLE ANALYTICAL RESULTS

| <u>Sample ID</u> | <u>Sample Date</u> | <u>TPH-D</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-<br/>benzene</u> | <u>Total<br/>Xylenes</u> | <u>EDB</u> | <u>1,2-DCA</u> |
|------------------|--------------------|--------------|----------------|----------------|---------------------------|--------------------------|------------|----------------|
| SP1              | 2/8/2010           | 830, c,d     | ND<0.005       | ND<0.005       | ND<0.005                  | ND<0.005                 | ND<0.004   | ND<0.004       |

**NOTES**  
TPH-G = Total Petroleum Hydrocarbons as Gasoline.  
EDB = 1,2-Dibromoethane.  
1,2-DCA = 1,2-Dichloroethane.  
ND = Not Detected.  
c = Laboratory analytical note: unmodified or weakly modified diesel-range compounds are present.  
d = Laboratory analytical note: Stoddard solvent/ mineral spirit(?)  
The metals total chromium, lead, nickel, and zinc were detected at concentrations of 54, 26, 57, and 110 mg/kg, respectively. The total chromium STLC analysis result was 0.23 milligrams per liter (mg/l).  
All results reported in milligrams per kilogram (mg/kg) unless otherwise noted.



# McC Campbell Analytical, Inc.

"When Quality Counts"

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|   |  |                          |
|---|--|--------------------------|
| P & D Environmental<br><br>55 Santa Clara, Ste.240<br><br>Oakland, CA 94610 | Client Project ID: #0494; City of Emeryville | Date Sampled: 02/08/10   |
|   | Client Contact: Paul King                    | Date Received: 02/09/10  |
|   | Client P.O.:                                 | Date Extracted: 02/17/10 |
|   |  | Date Analyzed: 02/18/10  |

### LUFT 5 Metals\*

Extraction method: SW3050B

Analytical methods: SW6010B

Work Order: 1002217

| Lab ID | Client ID | Matrix | Extraction Type | Cadmium | Chromium | Lead | Nickel | Zinc | DF | % SS | Comments |
|--------|-----------|--------|-----------------|---------|----------|------|--------|------|----|------|----------|
| 001A   | SP1       | S      | TOTAL           | ND      | 54       | 26   | 57     | 110  | 1  | 101  |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |
|        |           |        |                 |         |          |      |        |      |    |      |          |

|  |   |       |     |     |     |     |     |       |    |
|--|---|-------|-----|-----|-----|-----|-----|-------|----|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | TOTAL | NA  | NA  | NA  | NA  | NA  | NA    | NA |
|  | S | TOTAL | 1.5 | 1.5 | 5.0 | 1.5 | 5.0 | mg/Kg |    |

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.  
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.  
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

 Angela Rydelius, Lab Manager



# ATTACHMENT 12



**LOCATIONS FOUND**

- 1 WELL - HIGHLIGHT ON MAP
- 1 WELL - HIGHLIGHT ON MAP
- 1 WELL - HIGHLIGHT ON MAP
- 1 WELL - HIGHLIGHT ON MAP

**NEW WELLS IN CLUSTER**

- [NEW WELLS IN CLUSTER]
- [NEW WELLS IN CLUSTER]
- [NEW WELLS IN CLUSTER]
- [NEW WELLS IN CLUSTER]

**ZOOM IN (NON LOCATION)**

- [ZOOM IN (NON LOCATION)]
- [ZOOM IN (NON LOCATION)]
- [ZOOM IN (NON LOCATION)]
- [ZOOM IN (NON LOCATION)]

**ZOOM IN (LOCATION)**

- [ZOOM IN (LOCATION)]
- [ZOOM IN (LOCATION)]
- [ZOOM IN (LOCATION)]
- [ZOOM IN (LOCATION)]

**ZOOM OUT (NON LOCATION)**

- [ZOOM OUT (NON LOCATION)]
- [ZOOM OUT (NON LOCATION)]
- [ZOOM OUT (NON LOCATION)]
- [ZOOM OUT (NON LOCATION)]

**ZOOM OUT (LOCATION)**

- [ZOOM OUT (LOCATION)]
- [ZOOM OUT (LOCATION)]
- [ZOOM OUT (LOCATION)]
- [ZOOM OUT (LOCATION)]