



Brittany Frost  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
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Ms. Karel Detterman  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**RECEIVED**

By Alameda County Environmental Health 1:42 pm, Oct 03, 2016

Re: Former Tidewater Service Station 373378  
7600 MacArthur Boulevard  
Oakland, California

I have reviewed the attached Updated Site Conceptual Model and Data Gap Work Plan.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by GHD Services, Inc., upon who assistance and advice I have relied.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink that reads "B. Frost".

Brittany Frost  
Project Manager

Attachment: Updated Site Conceptual Model and Data Gap Work Plan



September 28, 2016

Reference No. 062164

Ms. Karel Detterman  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Oakland, California 94502

**Re: Updated Site Conceptual Model and Data Gap Work Plan  
Former Tidewater Service Station  
Phillip 66 Site 5677/Chevron Site 373378  
7600 MacArthur Boulevard  
Oakland, California  
ACDEH Fuel Leak Case No. RO3087**

Dear Ms. Detterman:

GHD Services Inc. (GHD) is submitting this *Updated Site Conceptual Model and Data Gap Work Plan* for the site referenced above on behalf of Chevron Environmental Management Company (Chevron) and Phillips 66 Company (Phillips 66). This report was prepared in accordance with the Alameda County Department of Environmental Health's (ACDEH) Technical Report Request Letter dated July 19, 2016 (Attachment A). The ACDEH letter was prepared as a response to the GHD (formerly CRA) *Site Investigation Report and Closure Request* Report dated November 21, 2014. A summary of the report request letter is provided below:

- ACDEH reviewed the GHD investigation and closure request report and has determined the following do not meet the State Water Resources Control Board (SWRCB) Low Threat Closure Policy (LTCP):
  - General Criteria F – Secondary Source Removal – Insufficient data was presented to determine removal of secondary source to the maximum extent practicable. A geophysical report was completed in April 2014 and identified 6 magnetic anomalies in the subsurface at the site. GHD completed 7 hand auger borings in the vicinity of these anomalies to verify no additional tanks are present at the site. However, no boring logs or discussion of the results of the hand auguring were included in the site investigation report.
  - LTCP Criteria for Groundwater – Grab groundwater samples were collected from several onsite borings during investigation activities, however, the three install monitoring wells (MW-1 through MW-3) were not developed and sampled. A minimum of 4 quarters of groundwater monitoring is required to establish a groundwater gradient, determine the existence of a groundwater plume, and if necessary determine the plume length and stability.

- LTCP Criteria for Vapor Intrusion to Indoor Air – Vapor intrusion cannot be assessed due to the uncertainty of the secondary source removal. ACDEH requested an evaluation of the media-specific criteria in an updated SCM.
- ACDEH has requested a Data Gap Investigation Work Plan and updated SCM to include the following:
  - A focused SCM to and data gap analysis to address the criteria noted above that do not meet the LTCP.
  - A potential receptor and groundwater plume figure that depicts plume length (including average, 90<sup>th</sup> percentile, and max plume lengths), flow directions and gradient, and potential receptors including buildings with basements.
  - Documentation of investigation derived waste (IDW) for previous and ongoing investigation activities.
- ACDEH has requested development and quarterly sampling of the three onsite wells. Quarterly sampling is to include the following:
  - Initial sampling of the full list of volatile organic compounds (VOCs) by EPA 8260 to develop a baseline for future sampling and analysis of VOCs.
  - Quarterly reporting to include a groundwater gradient and direction, a rose diagram, groundwater concentration and elevation graphs, evaluation of plume length and stability, and analytical data summary.
- ACDEH has requested that electronic copies of the all available reports, groundwater elevation and analytical data, survey data for site wells, waste documentation and correspondence be uploaded to the ACDEH electronic case file for the site as well as the SWRCB electronic database.

## 1. LTCP General Criteria F – Secondary Source Removal

In April 2014, GHD oversaw the completion of a geophysical investigation to determine whether Underground Storage Tanks (USTs) are present at the Site (Figure 1). The presence of existing USTs is indicative of potential additional secondary source in the subsurface. The geophysical investigation indicated six subsurface anomalies that could potentially be existing USTs. GHD advanced a total of 7 hand auger borings to 6 feet below ground surface (bgs) on October 2 and 8, 2014 at the previously located magnetic anomalies. No tanks or scrap metal were observed in any of the boreholes. Field screening with a photo-ionization detector (PID) did not detect concentrations of VOCs indicative of petroleum impacted soil. The locations of the hand auger borings are presented on Figure 2.

Given that there are no indications of additional USTs at the site, a remedial excavation was conducted when USTs were removed in 2007, and historical soil and groundwater concentrations are not indicative of additional secondary source, sufficient data exists to show compliance with LTCP general criteria F. Therefore, secondary source has been removed to the maximum extent practicable.

## 2. LTCP Media Specific Criteria – Groundwater

On July 28, 2016 Gettler Ryan Inc. (G R) of Dublin, California, developed the three monitoring wells (MW-1 through MW-3) onsite. On August 5, 2016, G R monitored and sampled site wells MW-1 through MW-3. Well development and sampling were completed pursuant to the ACEH directive letter dated July 19, 2016. Quarterly monitoring will be conducted for four consecutive quarters to determine groundwater gradient and flow direction as well as plume length and stability. A Potential receptor and groundwater plume map is presented on Figure 3. Figure 3 indicates a groundwater flow direction based on 3<sup>rd</sup> quarter monitoring to west-northwest. No concentrations of TPHg, benzene or MTBE were detected during the third quarter sampling event. Therefore, a comparison to the average and 90<sup>th</sup> percentile plume lengths presented in the *LTCP Technical Justification for Groundwater Media-Specific Criteria* Document could not be completed. However, the average and 90<sup>th</sup> percentile plume lengths were included on figure 3 for reference.

Following four quarters of sampling, an assessment will be made to determine if the media specific criteria for groundwater has been satisfied. The 3<sup>rd</sup> quarter groundwater sampling report will be provided under separate cover.

## 3. LTCP Media Specific Criteria – Vapor Intrusion to Indoor Air

As noted in Section 1, sufficient data has been presented to conclude that secondary source has been removed to the maximum extent practicable. Given the secondary source removal, an evaluation of vapor intrusion to indoor air can be made. The LTCP defines 4 potential exposure scenarios for vapor intrusion to indoor air. Based on the results of the recent third quarter groundwater sampling and previous investigations, site-specific data meet the requirements of scenario 3A, in which depth to groundwater is  $\geq 5$  fbg, dissolved benzene in groundwater is  $< 100$   $\mu\text{g/L}$ , and total TPH in the upper 5 feet of soil is  $< 100$  mg/kg. This analysis is based on one groundwater sampling event. Therefore following four quarters of sampling, a final determination will be made regarding the potential for soil vapor intrusion.

## 4. Documentation of Investigation Derived Waste

IDW generated during remedial Investigation activities completed in 2014 consisted of 11 drums of non-hazardous soil and 1 drum of non-hazardous petroleum contact water (decon water). All generated waste was hauled by Integrated Wastestream Management, Inc. on February 26, 2015 to the Waste Management, Inc. – Altamont Landfill and Resource Recovery Facility for proper disposal. Non-hazardous manifests and profiles both waste streams are included in Attachment B. Documentation of disposal for the third quarter well development and sampling activities will be provided in the 4<sup>th</sup> quarter groundwater monitoring report following completion of disposal activities.

## 5. Updated Site Conceptual Model

An updated SCM for the site has been completed based on the evaluation of the LTCP criteria presented above. The updated SCM identified a data gap for three more quarterly groundwater monitoring and sampling events to evaluate the media-specific criteria for groundwater and soil vapor intrusion. Although current data indicate compliance with the LTCP, four consecutive quarters of groundwater data are needed to confirm compliance with the LTCP. The updated SCM is included in Attachment C.

We appreciate the opportunity to work with you on this project. Should you have any questions on the above, please do not hesitate to contact Matthew Davis at (253) 573-1218.

Sincerely,

GHD



Matthew Davis



Brandon S. Wilken, PG 7564



MD/cw/6  
Encl.

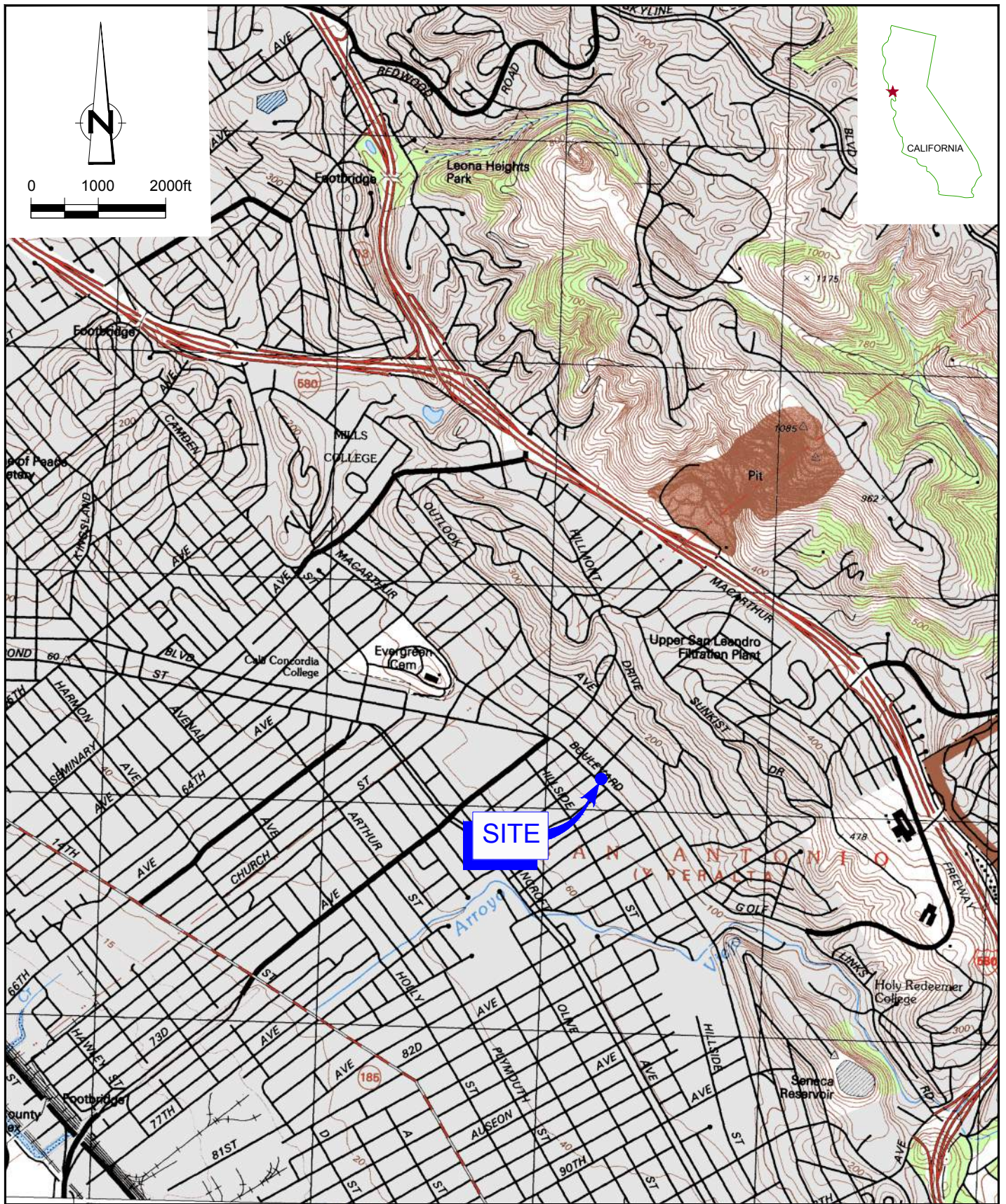
Figure 1	Vicinity Map
Figure 2	Site Plan with Hand Auger Locations
Figure 3	Potential Receptors and Groundwater Plume

Attachment A	Agency Correspondence
Attachment B	Waste Disposal Documentation
Attachment C	Updated Site Conceptual Model

cc: Ms. Brittany Frost, Chevron (*electronic copy*)  
Mr. Ed Ralston, Phillips 66 (*electronic copy*)  
Ms. Hong Gardner, Hong Gardner Trust (*electronic copy*)

# Figures





SOURCE: USGS QUADRANGLE MAP OAKLAND EAST, CALIFORNIA, 1997.



FORMER CHEVRON SERVICE STATION 373378  
 7600 MACARTHUR BLVD  
 OAKLAND, CALIFORNIA

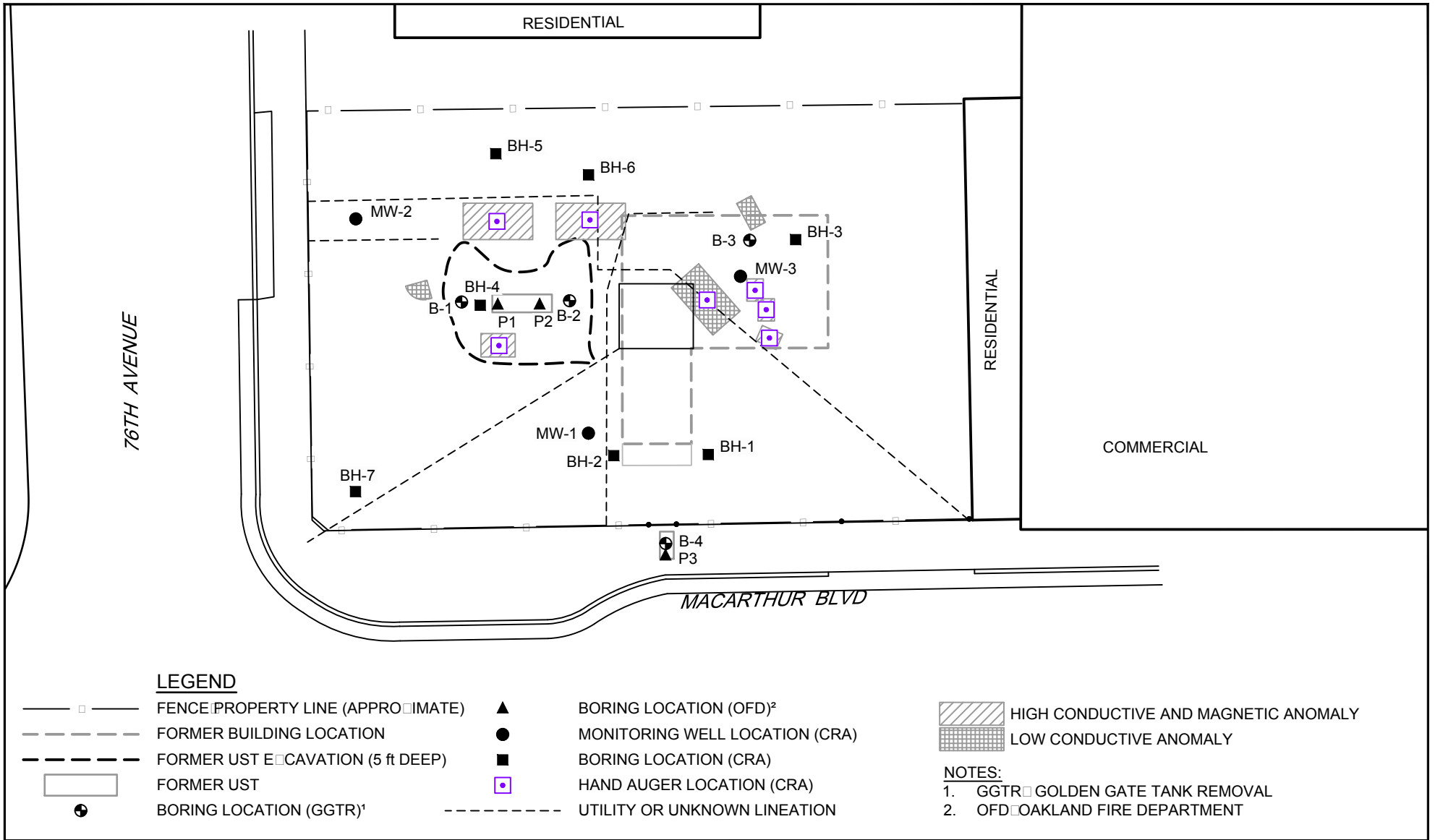
62164-2016.4

Sep 14, 2016

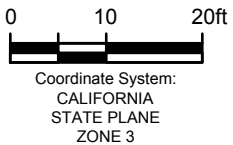
VICINITY MAP

FIGURE 1





SOURCE: MORROW SURVEYING, OCTOBER 8, 2014.



FORMER TIDEWATER SERVICE STATION  
 PHILLIPS 66 SITE 5677  
 CHEVRON SITE 373378  
 7600 MacArthur Blvd, Oakland, California  
 SITE PLAN WITH HAND AUGER LOCATIONS

62164-2016.4  
 Sep 15, 2016

FIGURE 2





# Attachment A Agency Correspondence



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-657

July 19, 2016

Ms. Jillian Holloway  
Chevron Environmental Management Company  
6101 Bollinger Canyon Road  
San Ramon, CA 94583  
(Sent via E-mail to: [JillianHolloway@chevron.com](mailto:JillianHolloway@chevron.com))

Ms. Hong Gardner  
632 Via Rialto Road  
Oakland, CA 94619  
(Sent via E-mail to: [honggardner@gmail.com](mailto:honggardner@gmail.com))

Mr. Ed Ralston - Program Manager  
Phillips 66 Company  
76 Broadway  
Sacramento, CA 95818  
Sent via e-mail to: [Ed.C.Ralston@p66.com](mailto:Ed.C.Ralston@p66.com)

Subject: Technical Report Request for Fuel Leak Case RO0003087 and GeoTracker Global ID T10000003434, Hong Gardner Property, 7600 MacArthur Boulevard, Oakland, CA 94605-2944

Ladies and Gentlemen:

Alameda County Department Environmental Health's (ACDEH) has reviewed the case file in addition to the *Site Investigation Report and Closure Request* (Report) dated December 1, 2014 and the *Geophysical Survey, Sanborn Map Review, and Addendum to Work Plan for Site Investigation* (Work Plan) dated April 29, 2014. The reports were prepared and submitted on your behalf by Conestoga-Rovers & Associates, now renamed GHD, in reference to the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACDEH staff review, we have determined that the site does not meet the LTCP General Criteria f (Secondary Source Removal), Media-Specific Criteria for Groundwater, or Media-Specific Criteria for Vapor Intrusion to Indoor Air.

ACDEH requests preparation of a Data Gap Work Plan that is supported by an updated Site Conceptual Model (SCM) to address the following data gaps.

#### **TECHNICAL COMMENTS**

- 1. General Criteria f – Secondary Source Has Been Removed to the Extent Practicable –** "Secondary source" is defined as petroleum-impacted soil or groundwater located at or immediately beneath the point of release from the primary source. Unless site attributes prevent secondary source removal (e.g. physical or infrastructural constraints exist whose removal or relocation would be technically or economically infeasible), petroleum-release sites are required to undergo secondary source removal to the extent practicable as described in the policy. "To the extent practicable" means implementing a cost-effective corrective action which removes or destroys-in-place the most readily recoverable fraction of source-area mass. It is expected that most secondary mass removal efforts will be completed in one year or less. Following removal or destruction of the secondary source, additional removal or active remedial actions shall not be required by regulatory agencies unless (1) necessary to abate a demonstrated threat to human health or (2) the groundwater plume does not meet the definition of low threat as described in this policy.

ACDEH's review of the case files indicates that insufficient data and analysis has been presented to assess compliance with General Criteria f. The Geophysical Report included as Attachment C in the Work Plan describes finding six "High Strength Conductive Pulse Anomalies with Magnetic Gradiometer signature response" including "two relatively large projection anomalies along the back or northeast of the former building area that are found end to end in symmetry". One of the Work Plan's goals was to identify the buried conductive anomalies by hand augering borings in the areas of the anomalies to approximately 5-6 feet below ground surface. The Report, however, does not include the boring logs of the seven hand augered soil borings, discuss the findings of the seven hand augered soil borings, or resolve the origin of the buried anomalies. Consequently, it has not been determined if secondary source remains at the site. Please present a strategy in the Updated Site Conceptual Model (SCM) and Data Gap Work Plan (described in Technical Comment 4 below) to address these Technical Comments and in an appendix include the boring logs of the seven hand augered soil borings. Alternatively, please provide justification of why the site satisfies this general criterion in the focused SCM described in Technical Comment 4 below.

2. **LTCP Media Specific Criteria for Groundwater** – To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites listed in the policy.

Our review of the case files indicate that the three groundwater monitoring wells, MW-1 through MW-3, were installed in September and October 2014 and according to the Work Plan, were to be sampled on a quarterly basis for the first year. Grab groundwater samples were obtained from each well during installation, but the wells were not developed or sampled. Therefore, insufficient data and analysis has been presented to support the requisite characteristics of groundwater gradient direction, plume stability, and length. Please present a strategy in the Updated SCM and Data Gap Work Plan discussed in Technical Comment 4 to determine groundwater plume stability and length.

- a. **Monitoring Well Development and Quarterly Sampling and Rose Diagram:** Please develop the three wells and sample for a minimum of four quarters to establish groundwater gradient direction, existence of a plume, plume stability, and length; Please prepare a rose diagram using data from each sampling event to confirm the groundwater gradient consistency and please provide an updated rose diagram with every quarterly sampling event;
- b. **Groundwater Concentration and Elevation Graphs:** Please provide graphs indicating groundwater concentrations and groundwater elevations together with each sampling event;
- c. **Baseline Analytical:** To establish a baseline, on a one-time basis and in the future, on an as needed basis, please analyze all groundwater samples for the full suite of Volatile Organic Compounds (VOCs) and please ensure detection limits are below proposed cleanup levels;
- d. **LTCP Plume Lengths:** To present another line of evidence supporting plume lengths, please prepare a figure indicating the average, 90<sup>th</sup> percentile, and maximum plume lengths for TPHg, benzene, and MTBE by referencing Table 1: *Plume Characteristics*, in the LTCP's *Technical Justification for Groundwater Media-Specific Criteria*. As shown in Attachment 2, *Sample Figures of Adjacent Buildings with Basements, LTCP Plume Lengths, and Well Survey*, please include the locations of the six water production wells identified in the one mile well survey included in the Report.
- e. **Investigation-Derived Waste:** Please submit the disposal documentation for the soil cuttings, rinsate water, and forth-coming well development and quarterly sampling events to ACDEH and to Geotracker, as described below.



3. **LTCP Media Specific Criteria for Vapor Intrusion to Indoor Air** – The LTCP describes conditions, including bioattenuation (unsaturated) zones, which if met will assure that exposure to petroleum vapors in indoor air will not pose unacceptable health risks to human occupants of existing or future site buildings, and adjacent parcels. Appendices 1 through 4 of the LTCP criteria illustrate four potential exposure scenarios and describe characteristics and criteria associated with each scenario.

Our review of the case files indicates that the risk of vapor intrusion cannot be assessed due to the uncertainty that the secondary source(s) were removed. Therefore, ACDEH requests an evaluation of the media-specific criteria in the updated SCM and Data Gap Work Plan. Please assess potential vapor intrusion to indoor air to the adjacent residences.

If soil vapor wells are proposed, please ensure that your sampling strategy is consistent with the field sampling protocols described in the Department of Toxic Substances Control's Final Vapor Intrusion Guidance (October 2011) and the updated February 22, 2016 San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels Version 3. Consistent with the guidance, ACDEH requires installation of permanent vapor wells to assess temporal and seasonal variations in soil gas concentrations. Please include the soil vapor investigation with the Updated SCM and Data Gap Work Plan requested below.

4. **Data Gap Investigation Work Plan and Site Conceptual Model** – Please prepare a Data Gap Investigation Work Plan to address the technical comments listed above. Please support the scope of work in the Data Gap Investigation Work Plan with a focused SCM and Data Quality Objectives (DQOs) that relate the data collection to each LTCP criteria.

As a part of updating the SCM, please include a rose diagram and locations of houses and buildings that have basements in the immediate downgradient direction of the site similar to the example provided in Attachment 2, *Sample Figures of Adjacent Buildings with Basements, LTCP Plume Lengths, and Well Survey*.

5. **Request for information** - The ACDEH case file for the subject site contains only the electronic files listed on our web site at <http://www.acgov.org/ACDEH/lop/ust.htm>. You are requested to submit electronic copies of all other reports including Phase I Reports, data, correspondence, etc. related to environmental investigations for this property not currently contained in our case file by the date specified in the Technical Report Request Section below. ACDEH requests e-mail notification of, and a list of the documents uploaded to Geotracker by the date listed below.
6. **Electronic Submittal of Information (ESI) Compliance** - Site data and documents are maintained in two separate electronic databases – ACDEH's ftp site and the SWRCB's GeoTracker database. Both databases act as repositories for regulatory directives and reports; however, only GeoTracker has the functionality to store electronic compliance data including analytical laboratory data for soil, vapor and water samples, monitoring well depth-to-water measurements, and surveyed location and elevation data for permanent sampling locations. Although the SWRCB is responsible for the overall operation and maintenance of the GeoTracker System, ACDEH, as lead regulatory agency, is responsible to ensure the GeoTracker database is complete and accurate for sites regulated under ACDEH's Environmental Cleanup Oversight Programs (SWRCB March 2011 document entitled *Electronic Reporting Roles and Responsibilities*).

A review of the case file and the State's GeoTracker database indicates that the site is not in compliance with California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, stating that beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the SWRCB GeoTracker system via the internet. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all

groundwater cleanup programs, including the Site Cleanup Program (SCP) cases. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites was required in GeoTracker. At present missing data and documents include, but may not be limited to, EDF submittals, depth to groundwater data (GEO\_WELL files), well data (GEO\_XY, and GEO\_Z files), work plans, and older reports (GEO\_REPORT files). Please upload requisite documents and data to GeoTracker. See Attachment 1 and the State's GeoTracker website for further details.

**TECHNICAL REPORT REQUEST**


Please upload technical reports to the ACDEH ftp site (Attention: Karel Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **September 20, 2016** – 3<sup>rd</sup> Quarterly Groundwater Monitoring and Sampling Report, Well Development, and Waste Disposal  
File to be named: RO3087\_GWM\_R\_yyyy-mm-dd
- **September 20, 2016** – Updated Site Conceptual Model and Data Gap Work Plan  
File to be named: RO3087\_SCM\_WP\_yyyy-mm-dd
- **January 20, 2017** – 4<sup>th</sup> Quarterly Monitoring and Sampling Report and Waste Disposal  
File to be named: RO3087\_GWM\_R\_yyyy-mm-dd
- **May 20, 2017** – 1<sup>st</sup> Quarterly Monitoring and Sampling Report and Waste Disposal  
File to be named: RO3087\_GWM\_R\_yyyy-mm-dd
- **September 20, 2017** – 2<sup>nd</sup> Quarterly Monitoring and Sampling Report and Waste Disposal  
File to be named: RO3087\_GWM\_R\_yyyy-mm-dd

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please send me an e-mail message at [karel.detterman@acgov.org](mailto:karel.detterman@acgov.org) or call me at (510) 567-6708.

Sincerely,



Digitally signed by Karel Detterman  
DN: cn=Karel Detterman, o, ou,  
email=karel.detterman@acgov.org, c=US  
Date: 2016.07.19 16:16:17 -07'00'

Karel Detterman, PG  
Hazardous Materials Specialist

Enclosures: Attachment 1 – *Responsible Party (ies) Legal Requirements / Obligations and Electronic Report Upload (ftp) Instructions*

Attachment 2, *Sample Figures of Adjacent Buildings with Basements, LTCP Plume Lengths, and Well Survey*

Ladies and Gentlemen  
RO0003087  
July 19, 2016, Page 5

cc: Matthew Davis, LG, 732 Broadway Suite 301, Tacoma, WA 98402 (Sent via E-mail to: [matthew.davis@ghd.com](mailto:matthew.davis@ghd.com))

Donald Schwartz, Esq., 7960-B Soquel Drive, No. 291, Aptos, CA 95003 (Sent via E-mail to: [donald@lawofficedonaldschwartz.com](mailto:donald@lawofficedonaldschwartz.com))

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

Karel Detterman, ACDEH (Sent via E-mail to: [karel.detterman@acgov.org](mailto:karel.detterman@acgov.org))

Electronic File, GeoTracker

## Attachment 1

### Responsible Party(ies) Legal Requirements / Obligations

#### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.



<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>REVISION DATE:</b> May 15, 2014
	<b>ISSUE DATE:</b> July 5, 2005
	<b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

# ATTACHMENT 2

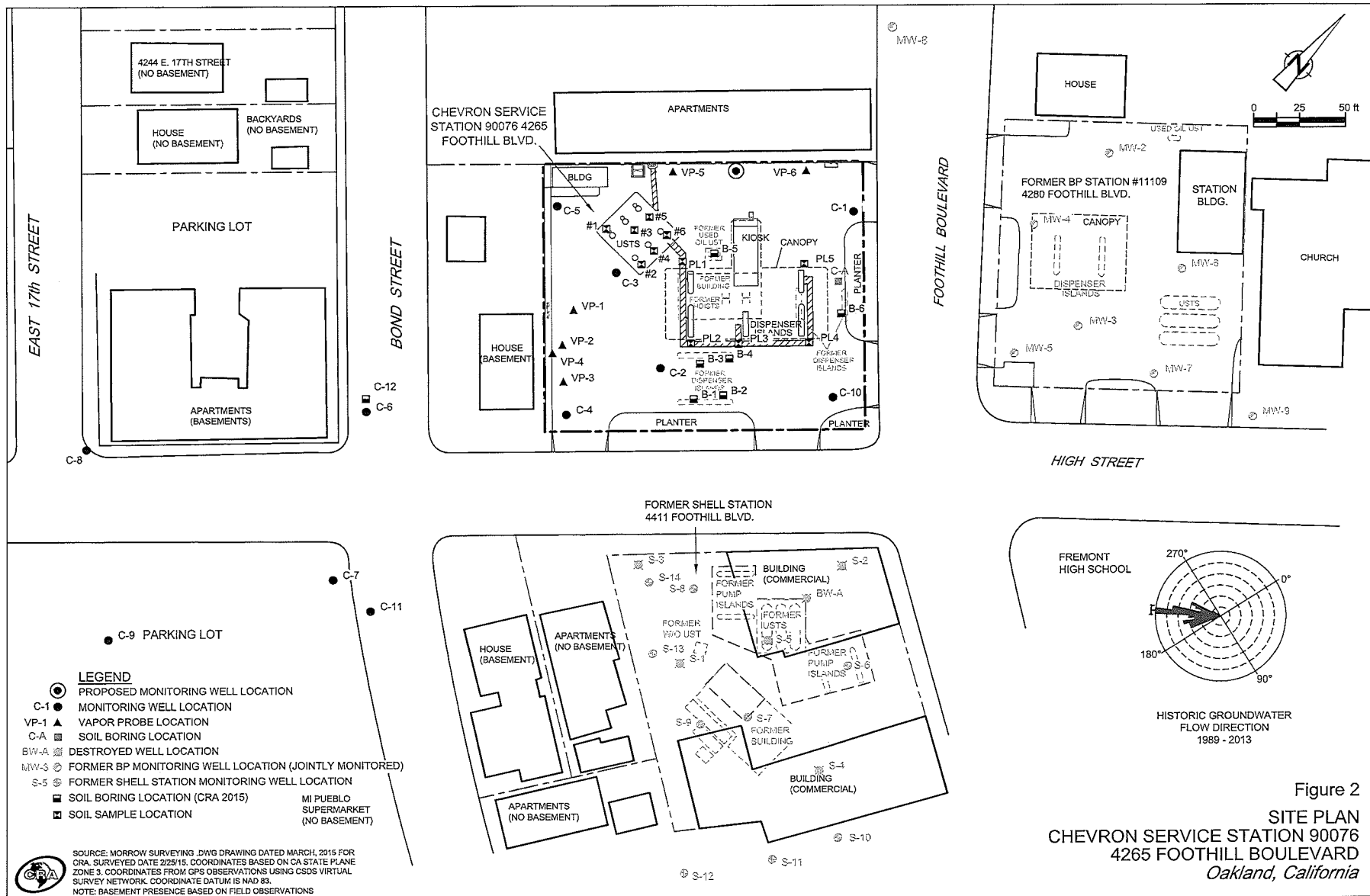
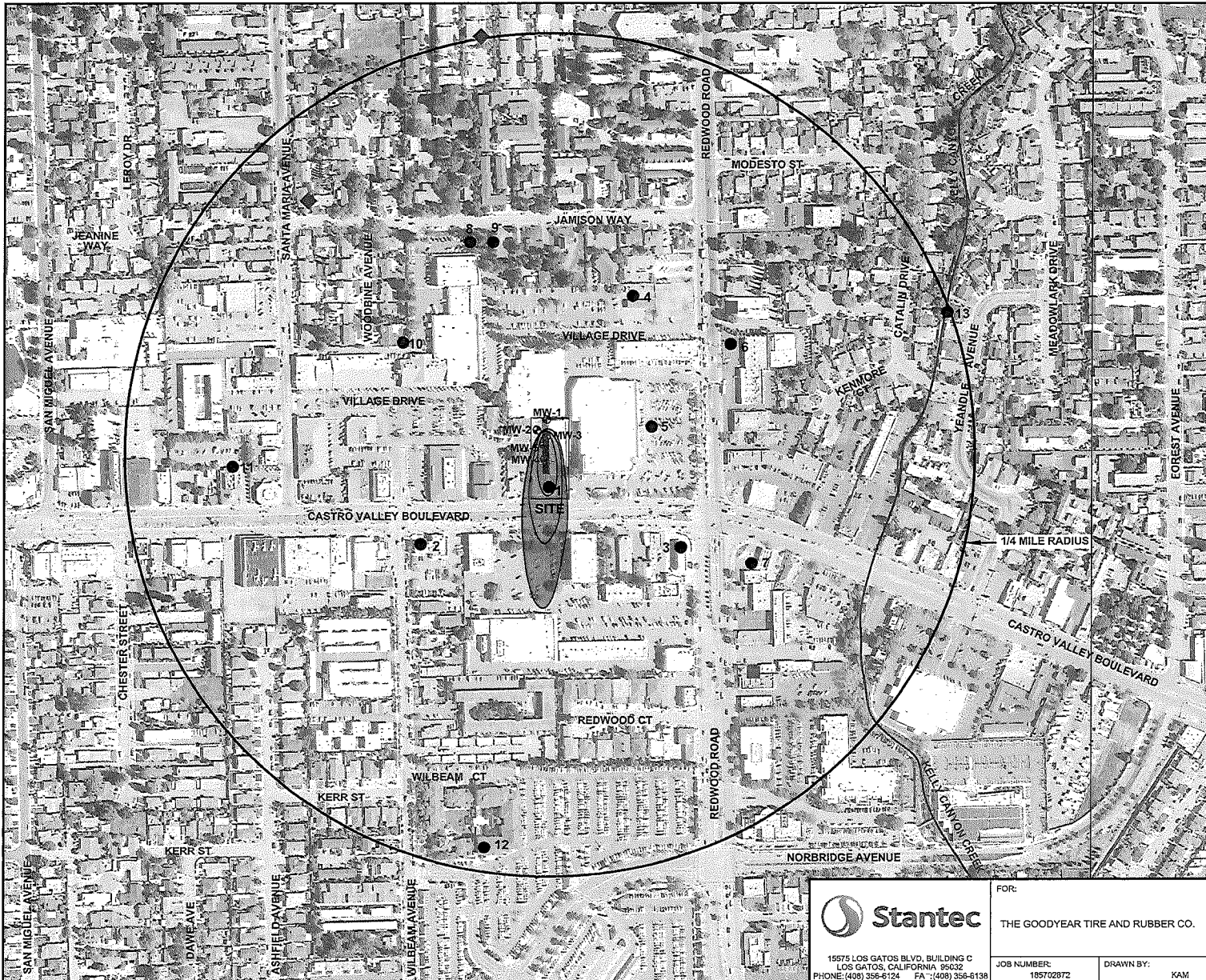


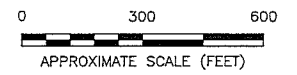
Figure 2  
 SITE PLAN  
 CHEVRON SERVICE STATION 90076  
 4265 FOOTHILL BOULEVARD  
 Oakland, California

SOURCE: MORROW SURVEYING, DWG DRAWING DATED MARCH, 2015 FOR CRA. SURVEYED DATE 2/25/15. COORDINATES BASED ON CA STATE PLANE ZONE 3. COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK. COORDINATE DATUM IS NAD 83.  
 NOTE: BASEMENT PRESENCE BASED ON FIELD OBSERVATIONS



**LEGEND:**

- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
- ACTIVE GROUNDWATER MONITORING WELL LOCATION
- ⊗ DESTROYED GROUNDWATER MONITORING WELL LOCATION
- AVERAGE PLUME LENGTH (5 ug/L)
- 90TH PERCENTILE PLUME LENGTH (5 ug/L)
- MAXIMUM PLUME LENGTH (5 ug/L)



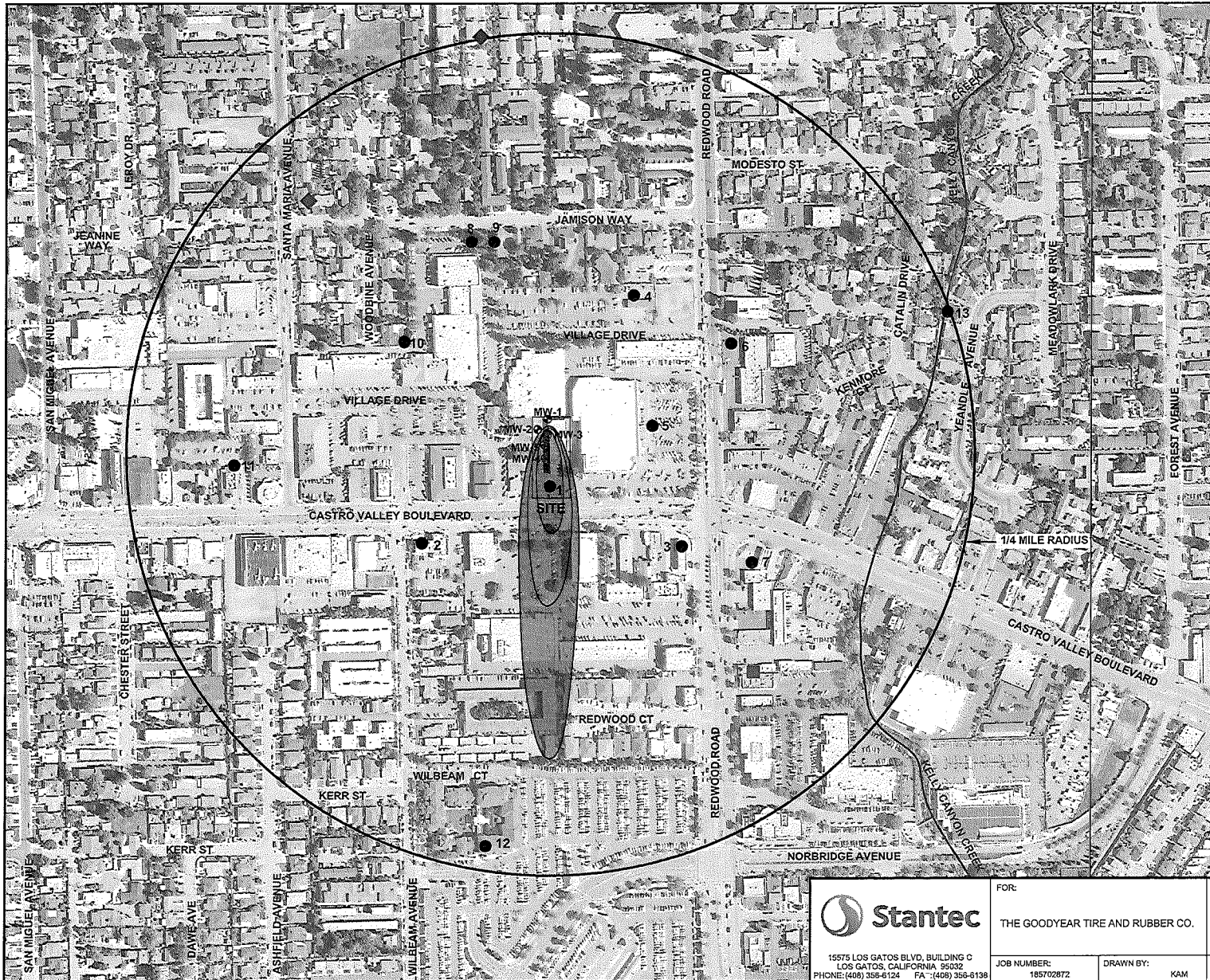
**Stantec**  
 15575 LOS GATOS BLVD, BUILDING C  
 LOS GATOS, CALIFORNIA 95032  
 PHONE: (408) 356-6124 FAX: (408) 356-6139

FOR:  
 THE GOODYEAR TIRE AND RUBBER CO.  
 JOB NUMBER: 185702872  
 DRAWN BY: KAM

**POTENTIAL BENZENE PLUME LENGTHS  
 BASED ON LTCP  
 TECHNICAL JUSTIFICATION  
 GOODYEAR DEX #9578  
 3430 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA**

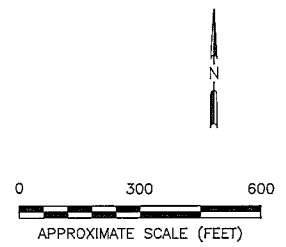
FIGURE:  
**10**  
 CHECKED BY: KM  
 APPROVED BY: GM  
 DATE: 01/08/15





**LEGEND:**

- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
- ⊙ ACTIVE GROUNDWATER MONITORING WELL LOCATION
- ⊗ DESTROYED GROUNDWATER MONITORING WELL LOCATION
- AVERAGE PLUME LENGTH (5 ug/L)
- 90TH PERCENTILE PLUME LENGTH (5 ug/L)
- MAXIMUM PLUME LENGTH (5 ug/L)



15575 LOS GATOS BLVD, BUILDING C  
LOS GATOS, CALIFORNIA 95032  
PHONE: (408) 359-6124 FAX: (408) 359-6138

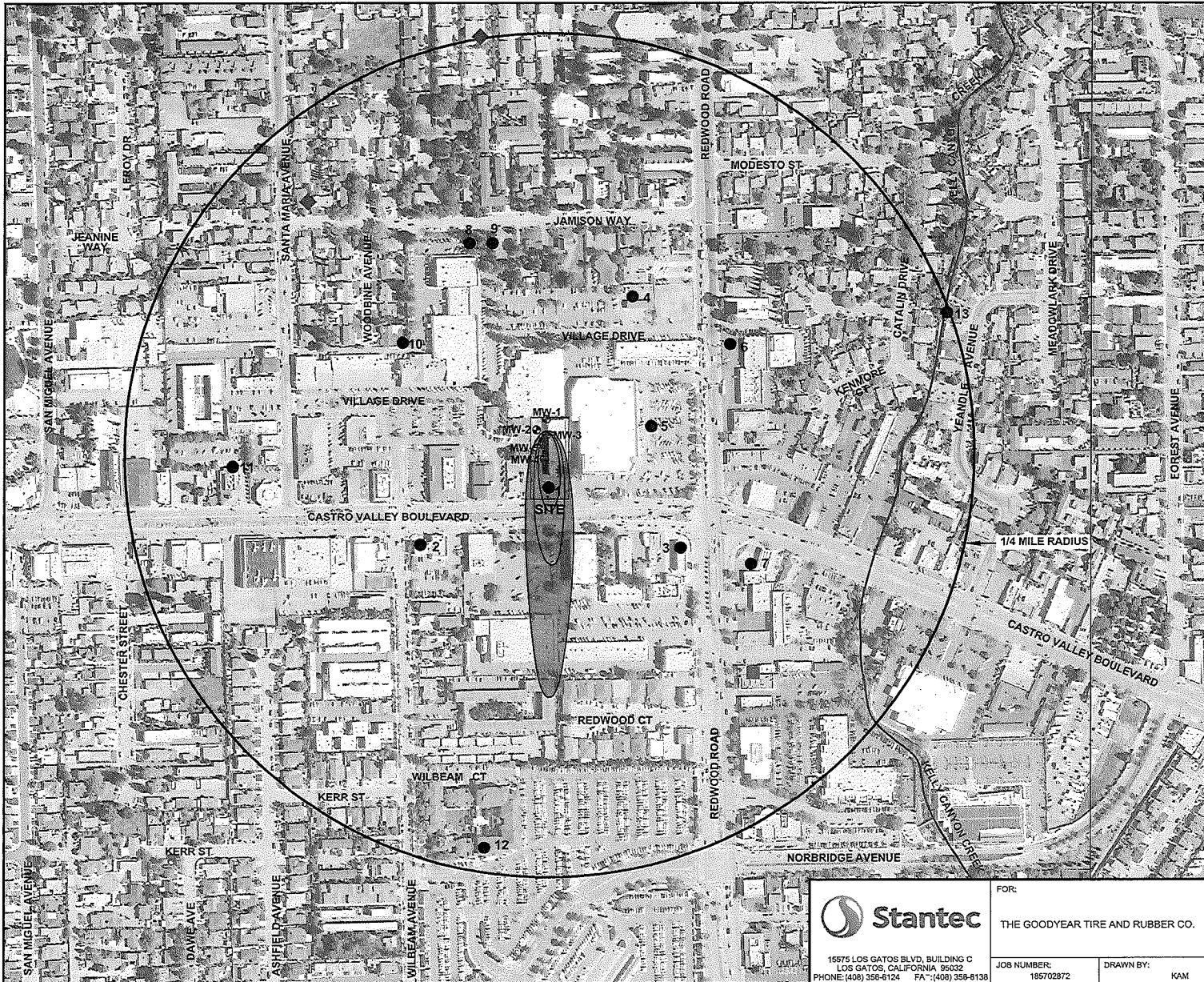
FOR:  
THE GOODYEAR TIRE AND RUBBER CO.

JOB NUMBER: 185702872 DRAWN BY: KAM

POTENTIAL MTBE PLUME LENGTHS  
BASED ON LTCP  
TECHNICAL JUSTIFICATION  
GOODYEAR DEX #9578  
3430 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA

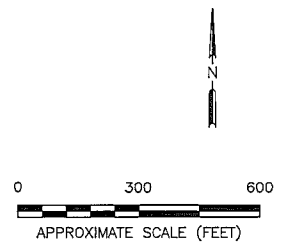
FIGURE:  
**11**

CHECKED BY: KM APPROVED BY: GM DATE: 01/08/15



**LEGEND:**

- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
- ACTIVE GROUNDWATER MONITORING WELL LOCATION
- ⊗ DESTROYED GROUNDWATER MONITORING WELL LOCATION
- AVERAGE PLUME LENGTH (100 ug/L)
- 90TH PERCENTILE PLUME LENGTH (100 ug/L)
- MAXIMUM PLUME LENGTH (100 ug/L)



15575 LOS GATOS BLVD, BUILDING C  
LOS GATOS, CALIFORNIA 95032  
PHONE: (408) 356-6124 FAX: (408) 356-8138

FOR:  
THE GOODYEAR TIRE AND RUBBER CO.

JOB NUMBER:  
185702872

DRAWN BY:  
KAM

POTENTIAL TPH<sub>g</sub> PLUME LENGTHS  
BASED ON LTCP  
TECHNICAL JUSTIFICATION  
GOODYEAR DEX #9578  
3430 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA

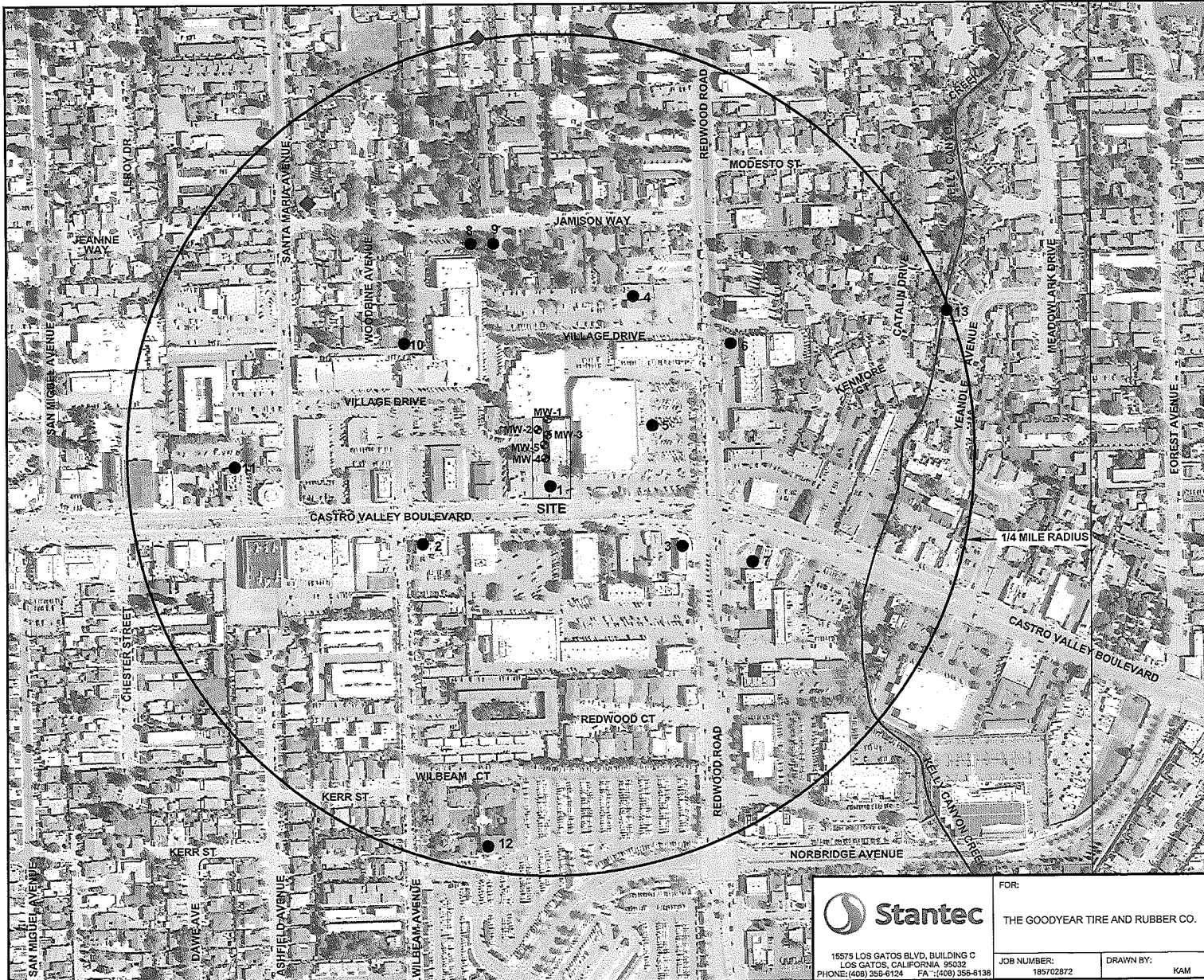
CHECKED BY:  
KM

APPROVED BY:  
GM

FIGURE:  
12

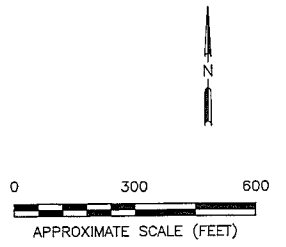
DATE:  
01/08/15





**LEGEND:**

- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
- ACTIVE GROUNDWATER MONITORING WELL LOCATION
- ⊗ DESTROYED GROUNDWATER MONITORING WELL LOCATION



15575 LOS GATOS BLVD, BUILDING C  
 LOS GATOS, CALIFORNIA 95032  
 PHONE: (408) 355-6124 FAX: (408) 355-6138

FOR: THE GOODYEAR TIRE AND RUBBER CO.		WELL & SENSITIVE RECEPTOR SURVEY GOODYEAR DEX #9578 3430 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA		FIGURE: <b>6</b>
JOB NUMBER: 185702872	DRAWN BY: KAM	CHECKED BY: KM	APPROVED BY: GM	DATE: 01/08/15

**APPENDIX C**  
**Wells Survey Results**  
**Former Goodyear Tire Store**  
3430 Castro Valley Boulevard  
Castro Valley, CA

	Owner/Site Name	Well Type	Drill Date	Total Depth	Address	Approximate Distance/Direction From Site
1	Merritt Tire Sale	Monitoring Wells	Sept 94, Dec 96, Aug 12	16-20	3430 Castro Valley Blvd.	0
2	CHEVRON #9-4930 / VALLEY CAR WASH	Monitoring Well	Oct-93	20	3369 Castro Valley Blvd.	460 SW
3	Ted Simas (XTRA OIL DBA SHELL STATION)	Monitoring Wells	Feb 90 & Aug 97	18-20	3495 Castro Valley Blvd.	510 SE
4	R. T. Nahas Company (UNOCAL)	Monitoring Wells	Dec 89	25-30	20405 Redwood Rd.	520 NE
5	R. T. Nahas Company	Monitoring Wells	Apr 92	29-37	20629 Redwood Rd	310 E
6	Exxon Oil	Unknown	?	?	20450 Redwood Rd.	650 NE
7	BP #11105 / SHELL 17-1445	Monitoring Well	Sept 92, July 95, Aug 09,	15-30	3519 Castro Valley Blvd.	700 SE
8	R. T. Nahas Company	Domestic/Destroyed	Dec 75	56	3559 JAMISON WAY	700 NNW
9	R. T. Nahas Company	Destroyed	?	20 & 25	3533 JAMISON WAY	725 NNW
10	Horseshoe Drilling	Destroyed	Apr 96	20	20342 Woodbine Ave	600 NW
11	Mitzi Stockel	BOR/MON	Apr-90	8-23	3234 Castro Valley Blvd	1000 W
12	BART	Monitoring Well	Feb 93	16	21000 Wilbeam Ave.	1225 SSW
13	Robert D Rousey	Irrigation	May-77	28	20283 Yeandle Ave.	1325 ENE

# Attachment B

## Waste Disposal Documentation

7Y18661 15580

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 424-930	4. Waste Tracking Number	
5. Generator's Name and Mailing Address Tidewater 373378 PO Box 6004 - Chevron San Ramon, CA 94583 Generator's Phone 77 3 6 6 4			Generator's Site Address (if different than mailing address) M1.			
6. Transporter 1 Company Name INTEGRATED WASTESTREAM MANAGEMENT, INC.			US EPA ID N m CAD983653627			
7. Transporter 2 Company Name			US EPA ID Number			
8. Designated Facility Name and Site Address WMI - Altamont Landfill and Resource Recovery Facility 10840 Altamont Pass Rd Livermore, CA 94550 Facility's Phone: 925-455-7350			US EPA ID Number CAD981392732			
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol
			No.	Type		
	1. NON DOT REGULATED MATERIAL (Petroleum Contact Water, Non-Hazardous)		001	DM	050	G
	2. NON DOT REGULATED MATERIAL (Soil Contaminated with Petroleum Products, Non-Hazardous)		<del>010</del> 011	DM	6000	P
	3.					
13. Special Handling Instructions and Additional Information		Wear level D PPE, gloves, goggles, splash protection (if liquids present). WR2695   ERG: N/A EO #4075739				
1. PROFILE #621363CA						
2. PROFILE #621368CA						
12 DM 55-GAL DRUMS						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name OLIVER YAN		AS DELEGATED AGENT FOR CHEVRON EMC		Signature 	Month Day Year 02 26 15	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit Date leaving U.S.						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name SCOTT DUNDON		Signature 		Month Day Year 02 26 15		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
17b. Alternate Facility (or Generator) Manifest Reference Number U.S. EPA ID Number						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a						
Printed/Typed Name John Schaeuffler		Signature 		Month Day Year 2 26 15		



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number WP2695-001		
	5. Generator's Name and Mailing Address Tidewater 373378 PO Box 6004 - Chevron EMC Waste Desk San Ramon, CA 94583 Generator's Phone: 877 386-6044		Generator's Site Address (if different than mailing address) 7600 MacArthur Blvd Oakland, CA 94605-2944			
6. Transporter 1 Company Name INTEGRATED WASTE/DEBRIS MANAGEMENT, INC.			U.S. EPA ID Number CA01826536A			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WMI - Altamont Landfill and Resource Recovery Facility 10846 Altamont Pass Rd Livermore, CA 94550 Facility's Phone: 925-455-7150			U.S. EPA ID Number CA0981393732			
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
	No.	Type				
1. NON DOT REGULATED MATERIAL (Petroleum Contact Water, Non-Hazardous)	001	DM	050	G		
2. NON DOT REGULATED MATERIAL (Soil Contaminated with Petroleum Products, Non-Hazardous)	<del>010</del> 011	DM	6000	P		
3.		BY 4/26/15				
4.						
13. Special Handling Instructions and Additional Information 1. PROFILE #621369CA 2. PROFILE #621369CA Wear level D PPE, gloves, goggles, splash protection if liquids present. WR2695 1 ERG: N/A PO #4875739 12 DM						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offor's Printed/Typed Name OLIVEL YAN		Signature <i>[Signature]</i>		Month 02	Day 26	Year 15
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Scott Dendron		Signature <i>[Signature]</i>		Month 02	Day 26	Year 15
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name		Signature		Month	Day	Year



# Non-Hazardous WAM Approval

Requested Management Facility: Altamont Landfill & Resource Recovery

Profile Number: 621363CA Waste Approval Expiration Date: 02/12/2016

### APPROVAL DETAILS

Approval Decision:  Approved  Not Approved Profile Renewal:  Yes  No

Management Method: Solidification/Liquifix

Generator Name: CEMC, Texaco Downstream Properties Inc 373378

Material Name: Petroleum Contact Water, Non-Hazardous

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

#### Generator Conditions

- Shipment must be scheduled into the disposal facility at least 24 hours in advance. Contact information will be provided by your TSR.
- Waste manifest or applicable shipping document must accompany load.
- The waste profile number must appear on the shipping papers.

Leslie Fichera [2/23/2015]:

Approved name change from CEMC, Texaco Downstream Properties Inc 373378 to CEMC, Tidewater 373378.

#### Facility Conditions

Solidify Class 2 Drum Disposal

WM Authorization Name: Leslie Fichera Title: Waste Approval Manager

WM Authorization Signature: *Leslie Fichera* Date: 02/12/2015

Agency Authorization (if Required): \_\_\_\_\_ Date: \_\_\_\_\_



# Non-Hazardous WAM Approval

Requested Management Facility: Altamont Landfill & Resource Recovery

Profile Number: 621368CA Waste Approval Expiration Date: 02/11/2016

### APPROVAL DETAILS

Approval Decision:  Approved  Not Approved Profile Renewal:  Yes  No

Management Method: Direct Landfill

Generator Name: CEMC, Texaco Downstream Properties Inc 373378

Material Name: Soil Contaminated with Petroleum Products, Non-Haz

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

#### Generator Conditions

- Shipment must be scheduled into the disposal facility at least 24 hours in advance. Contact information will be provided by your TSR.
- Waste manifest or applicable shipping document must accompany load.
- The waste profile number must appear on the shipping papers.

Leslie Fichera [2/23/2015]:

Approved name change from CEMC, Texaco Downstream Properties Inc 373378 to CEMC, Tidewater 373378.

#### Facility Conditions

Class 2 Drum Disposal

WM Authorization Name: Leslie Fichera Title: Waste Approval Manager

WM Authorization Signature: *Leslie Fichera* Date: 02/11/2015

Agency Authorization (if Required): \_\_\_\_\_ Date: \_\_\_\_\_



Requested Facility: Altamont Landfill & Resource Recovery  Unsure Profile Number: 621363CA  
 Multiple Generator Locations (Attach Locations)  Request Certificate of Disposal  Renewal? Original Profile Number: \_\_\_\_\_

**A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

- Generator Name: CEMC, Tidewater 373378
- Site Address: 7600 MacArthur Blvd  
(City, State, ZIP) Oakland CA 94605
- County: Alameda
- Contact Name: Mohamed Ibrahim, As Agent For Chevron EMC
- Email: mibrahim@croworld.com
- Phone: (916) 889-8920 7. Fax: (916) 889-8999
- Generator EPA ID: \_\_\_\_\_  N/A
- State ID: \_\_\_\_\_  N/A

**C. MATERIAL INFORMATION**

- Common Name: Petroleum Contact Water, Non-Hazardous  
Describe Process Generating Material:  See Attached  

Purge water, extracted groundwater, tank rinsate, OWS from investigation or remediation of past contamination associated with UST Corrective Action 40 CFR Part 280.
- Material Composition and Contaminants:  See Attached

1. Water	95-100 %
2. Sediment (soil, silt)	0-5 %
3. TPH-DRO CA C10-C28	270 ug/l
4. TPH Motor Oil C16-C36	420 ug/l
Total composition must be equal to or greater than 100%	≥100%
- State Waste Codes: \_\_\_\_\_  N/A
- Color: Varies
- Physical State at 70°F:  Solid  Liquid  Other: \_\_\_\_\_
- Free Liquid Range Percentage: 95 to 100  N/A
- pH: 4.0 to 9.0  N/A
- Strong Odor:  Yes  No Describe: \_\_\_\_\_
- Flash Point:  <140°F  140°-199°F  ≥200°  N/A

**E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION**

- Analytical attached  Yes  
Please identify applicable samples and/or lab reports:  

Eurofins, Lancaster Laboratories, Analysis Report; Group Number: 1510196; Dated: October 27, 2014; Client Sample Description: Waste-W-141008 Composite Water; Lancaster Labs #7633126.
- Other information attached (such as MSDS)?  Yes

**G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)**

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.  
Chevron EMC

Name (Print): Mohamed Ibrahim, as agent for ^Date: 02/23/2015

Title: SME/Conestoga-Rovers & Associates

Company: Chevron Environmental Management Company

**B. BILLING INFORMATION** SAME AS GENERATOR

- Billing Name: Chevron EMC, c/o CRA, Inc.
- Billing Address: 5900 Hollis Avenue, Suite A  
(City, State, ZIP) Emeryville CA 94608
- Contact Name: Mohamed Ibrahim, As Agent For Chevron EMC
- Email: mibrahim@croworld.com
- Phone: (916) 889-8920 6. Fax: (916) 889-8999
- WM Hauled?  Yes  No
- P.O. Number: \_\_\_\_\_
- Payment Method:  Credit Account  Cash  Credit Card

**D. REGULATORY INFORMATION**

- EPA Hazardous Waste?  Yes\*  No  
Code: \_\_\_\_\_
- State Hazardous Waste?  Yes  No  
Code: \_\_\_\_\_
- Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?  Yes\*  No
- Contains Underlying Hazardous Constituents?  Yes\*  No
- From an industry regulated under Benzene NESHAP?  Yes\*  No
- Facility remediation subject to 40 CFR 63 GGGGG?  Yes\*  No
- CERCLA or State-mandated clean-up?  Yes\*  No
- NRC or State-regulated radioactive or NORM waste?  Yes\*  No
- \*If Yes, see Addendum (page 2) for additional questions and space.
- Contains PCBs? → If Yes, answer a, b and c.  Yes  No
  - Regulated by 40 CFR 761?  Yes  No
  - Remediation under 40 CFR 761.61 (a)?  Yes  No
  - Were PCB imported into the US?  Yes  No
- Regulated and/or Untreated Medical/Infectious Waste?  Yes  No
- Contains Asbestos?  Yes  No  
→ If Yes:  Non-Friable  Non-Friable - Regulated  Friable

**F. SHIPPING AND DOT INFORMATION**

- One-Time Event  Repeat Event/Ongoing Business
- Estimated Quantity/Unit of Measure: 1  
 Tons  Yards  Drums  Gallons  Other: \_\_\_\_\_
- Container Type and Size: DM/55 G
- USDOT Proper Shipping Name: \_\_\_\_\_  N/A

Certification Signature

, as agent for Chevron EMC



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: \_\_\_\_\_

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

[Empty box for describing process generating material]

Material Composition and Contaminants (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

Table with 2 columns: Material Composition and Contaminants, and Total composition must be equal to or greater than 100%. Rows 5-9.

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

[Empty box for listing USEPA listed and characteristic waste code numbers]

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?
c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)?
d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?

2. State Hazardous Waste -> Please list all state waste codes:

3. For material that is Treated, Delisted, or Excluded -> Please indicate the category, below:

- Delisted Hazardous Waste, Excluded Waste under 40 CFR 261.4, Treated Hazardous Waste Debris, Treated Characteristic Hazardous Waste

4. Underlying Hazardous Constituents -> Please list all Underlying Hazardous Constituents:

[Empty box for listing underlying hazardous constituents]

5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

- a. Are you a TSDF?
b. Does this material contain benzene?
c. What is your facility's current total annual benzene quantity in Megagrams?
d. Is this waste soil from a remediation?
e. Does the waste contain >10% water/moisture?
f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?
g. Is material exempt from controls in accordance with 40 CFR 61.342?
h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?

6. 40 CFR 63 GGGGG -> Does the material contain <500 ppmw VOHAPs at the point of determination?

7. CERCLA or State-Mandated clean up -> Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal.

8. NRC or state regulated radioactive or NORM Waste -> Please identify Isotopes and pCi/g:





Requested Facility: Altamont Landfill & Resource Recovery  Unsure Profile Number: 621368CA  
 Multiple Generator Locations (Attach Locations)  Request Certificate of Disposal  Renewal? Original Profile Number: \_\_\_\_\_

**A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

- Generator Name: CEMC, Tidewater 373378
- Site Address: 7600 MacArthur Blvd  
(City, State, ZIP) Oakland CA 94605
- County: Alameda
- Contact Name: Mohamed Ibrahim, as agent for Chevron EMC
- Email: mibrahim@croworld.com
- Phone: (916) 889-8920 7. Fax: (916) 889-8999
- Generator EPA ID: \_\_\_\_\_  N/A
- State ID: \_\_\_\_\_  N/A

**C. MATERIAL INFORMATION**

- Common Name: Soil Contaminated with Petroleum Products, Non-Haz  
Describe Process Generating Material:  See Attached  

Investigation or remediation of past contamination associated with UST Corrective Action 40 CFR Part 280.
- Material Composition and Contaminants:  See Attached

1. Soil	95-100 %
2. Construction Debris	0-5 %
3. TPH-GRO	1.2 mg/kg
4. TPH-DRO	8.0 mg/kg
Total composition must be equal to or greater than 100% <input checked="" type="checkbox"/> ≥100%	
- State Waste Codes: \_\_\_\_\_  N/A
- Color: Varies
- Physical State at 70°F:  Solid  Liquid  Other: \_\_\_\_\_
- Free Liquid Range Percentage: \_\_\_\_\_ to \_\_\_\_\_  N/A
- pH: \_\_\_\_\_ to \_\_\_\_\_  N/A
- Strong Odor:  Yes  No Describe: \_\_\_\_\_
- Flash Point:  <140°F  140°-199°F  ≥200°  N/A

**E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION**

- Analytical attached  Yes  
Please identify applicable samples and/or lab reports:  

Eurofins, Lancaster Laboratories, Analysis Report; Group Number: 1510196; dated October 27, 2014; Client Sample Description: Waste-S-141008 Composite Soil; Lancaster Labs #7633127 & 7633130
- Other information attached (such as MSDS)?  Yes

**G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)**

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.  
Chevron EMC

Name (Print): Mohamed Ibrahim, as Agent for ^ Date: 02/23/2015

Title: SME/Conestoga-Rovers & Associates

Company: Chevron Environmental Management Company

**B. BILLING INFORMATION** SAME AS GENERATOR

- Billing Name: Chevron EMC, - c/o CRA Inc.
- Billing Address: 5900 Hollis Street, Suite A  
(City, State, ZIP) Emeryville CA 94608
- Contact Name: Mohamed Ibrahim, as agent for Chevron EMC
- Email: mibrahim@croworld.com
- Phone: (916) 889-8920 6. Fax: (916) 889-8999
- WM Hauled?  Yes  No
- P.O. Number: \_\_\_\_\_
- Payment Method:  Credit Account  Cash  Credit Card

**D. REGULATORY INFORMATION**

- EPA Hazardous Waste?  Yes\*  No  
Code: \_\_\_\_\_
- State Hazardous Waste?  Yes  No  
Code: \_\_\_\_\_
- Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?  Yes\*  No
- Contains Underlying Hazardous Constituents?  Yes\*  No
- From an industry regulated under Benzene NESHAP?  Yes\*  No
- Facility remediation subject to 40 CFR 63 GGGGG?  Yes\*  No
- CERCLA or State-mandated clean-up?  Yes\*  No
- NRC or State-regulated radioactive or NORM waste?  Yes\*  No
- \*If Yes, see Addendum (page 2) for additional questions and space.**
- Contains PCBs? → If Yes, answer a, b and c.  Yes  No
  - Regulated by 40 CFR 761?  Yes  No
  - Remediation under 40 CFR 761.61 (a)?  Yes  No
  - Were PCB imported into the US?  Yes  No
- Regulated and/or Untreated Medical/Infectious Waste?  Yes  No
- Contains Asbestos?  Yes  No  
→ If Yes:  Non-Friable  Non-Friable - Regulated  Friable

**F. SHIPPING AND DOT INFORMATION**

- One-Time Event  Repeat Event/Ongoing Business
- Estimated Quantity/Unit of Measure: 11  
 Tons  Yards  Drums  Gallons  Other: \_\_\_\_\_
- Container Type and Size: DM/55 G
- USDOT Proper Shipping Name: \_\_\_\_\_  N/A

**Certification Signature**

, as agent for Chevron EMC.



**Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.**

Profile Number: 621368CA

### C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

5. Total TPH	230 mg/kg
6. TPH Motor Oil C16-C36	230 mg/kg
7. Lead	2.01 mg/kg
8. Chromium (Total)	55.8 mg/kg
9. Chromium (STLC)	215 ug/l
Total composition must be equal to or greater than 100%	≥100%

### D. REGULATORY INFORMATION

**Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.**

**1. EPA Hazardous Waste**

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?  Yes  No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4.  Yes  No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?  Yes  No  
 → If Yes, please check **one** of the following:
  - Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
  - Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: \_\_\_\_\_

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:  
 Delisted Hazardous Waste       Excluded Waste under 40 CFR 261.4 → Specify Exclusion: \_\_\_\_\_  
 Treated Hazardous Waste Debris       Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

**5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.**

- a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.  Yes  No
- b. Does this material contain benzene?  Yes  No  
 1. If yes, what is the flow weighted average concentration? \_\_\_\_\_ ppmw
- c. What is your facility's current total annual benzene quantity in Megagrams?  <1 Mg    1–9.99 Mg    ≥10 Mg
- d. Is this waste soil from a remediation?  Yes  No  
 1. If yes, what is the benzene concentration in remediation waste? \_\_\_\_\_ ppmw
- e. Does the waste contain >10% water/moisture?  Yes  No
- f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?  Yes  No
- g. Is material exempt from controls in accordance with 40 CFR 61.342?  Yes  No  
 → If yes, specify exemption: \_\_\_\_\_
- h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?  Yes  No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination?  Yes  No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: \_\_\_\_\_

# Attachment C

## Updated Site Conceptual Model

**Table 4-1  
Site Conceptual Model**

<b>CSM Element</b>	<b>CSM Sub-Element</b>	<b>Description</b>	<b>Data Gap Item #</b>	<b>Resolution</b>
Geology and Hydrogeology	Site	Soil beneath the site consists primarily of clay with varying, minor percentages of sand and gravel. Groundwater is encountered at approximately 33 to 34 feet below grade.		
Geology and Hydrogeology	Regional	Lithology in the vicinity of the site consists of Quaternary alluvium and Franciscan Formation chert, shale, greenstone, and sandstone. Groundwater in the Oakland area typically flows along topography, which slopes down toward the San Francisco Bay to the west. Third quarter 2016 groundwater monitoring data indicate a flow direct to the west-northwest.		
Surface Water Bodies		Arroyo Viejo Creek is located approximately 0.4 mile southwest of the site. It flows into the Oakland Inner Harbor. San Francisco Bay is 2.3 miles to the southwest.		
Nearby Wells		A review of DWR and ACPWA records indicate that 6 water production wells are located within 1 mile of the site. The nearest well is located approximately 1,980 feet west of the site.		
Release Source and Volume		Suspected sources include one 1,000-gallon gasoline UST, one 300-gallon gasoline UST, and two hydraulic lifts. The USTs were abandoned and filled with concrete circa 1970. The USTs and hydraulic lifts were removed in January 2007. The volume of release is not known.		
LNAPL		No LNAPL detected		
Source Removal Activities		Two USTs and two hydraulic lifts were removed in January 2007. Fate of overexcavated soil is unknown based on available reports, but hydrocarbon concentrations remaining in soil are not indicative a remaining residual source onsite. Additionally, hand auger borings were completed in October 2014 areas where potential USTs could be present based on a geophysical investigation. No tanks or metal scraps were found in any of the hand augured borings.		
Contaminants		Contaminants of concern for the site include petroleum		

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
of Concern		hydrocarbon constituents, primarily TPHg, TPHd, and TPHmo.  The presence of these constituents is consistent with the site history as a gasoline service station.		
Petroleum Hydrocarbons in Soil		The soil near the former location of the hydraulic lift contains TPHd, TPHmo, and TOG range hydrocarbons and the soil near the former location of the 300-gallon UST contains TPHg range hydrocarbons. Hydrocarbon concentrations detected in soil are primarily below SFB-RWQCB ESLs and do not pose a significant threat to human health or the environment.		
Petroleum Hydrocarbons in Groundwater		<p>TPHg was detected in a grab sample from only one boring, MW-1 at 480 µg /L, and TPHd was detected in grab samples from four borings at concentrations ranging from 75 to 620 µg /L; no benzene or methyl tert-butyl ether (MTBE) was detected in groundwater.</p> <p>Following development and sampling of monitoring wells MW-1 through MW-3, only TPHd was detected in well MW-1 at 260 µg /L, no other petroleum constituents were detected.</p> <p>Although TPHd was detected at concentrations exceeding the RWQCB ESLs of 100 µg/L, the results indicate that the remaining dissolved hydrocarbon plume is limited in extent. In previous work conducted in 2007, TPHg and TPHd range hydrocarbons in soil had atypical chromatogram patterns not indicative of gasoline or diesel. Given that the former USTs were abandoned in the 1970's, remaining hydrocarbon mass is likely weathered and degraded. The remaining TPHd hydrocarbons in groundwater, along with heavier (longer-chain) hydrocarbons detected in the TPH as motor oil and total oil and grease ranges beneath the site are not as soluble as unweathered product, and plume lengths are not as significant.<sup>1</sup> In technical guidance provided by the SWRCB for the LTCP, the average TPHg plume length based on empirical data is approximately 250 feet where sufficient dissolved TPHg-range hydrocarbons, including benzene and MTBE, are present to migrate. The characteristics of the petroleum hydrocarbons detected beneath the site suggest that the hydrocarbon plume is</p>	4 quarter of groundwater data are needed to determine compliance with the LTCP media specific criteria for groundwater.	4 quarters of sampling will be completed starting in the third quarter of 2016.

<sup>1</sup> State Water Resources Control Board, Technical Justification for Groundwater Plume Lengths, Indicator Constituents, Concentrations, and Buffer Distances (Separation Distances) to Receptors, July 12, 2011.



CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
		likely stable and less than 250 feet in length.		
Vapor Intrusion to Indoor Air		The LTCP media specific criteria for soil vapor intrusion define 4 potential exposure scenarios for vapor intrusion to indoor air. Based on the results of the recent third quarter groundwater sampling and soil data from previous investigations, site-specific data meet the requirements of scenario 3A, in which depth to groundwater is $\geq 5$ fbg, dissolved benzene in groundwater is $< 100$ $\mu\text{g/L}$ , and total TPH in the upper 5 feet of soil is $< 100$ mg/kg.	4 quarters of groundwater data are needed to confirm the requirements of scenario 3A are met for 4 consecutive quarters	4 quarters of sampling will be completed starting in the third quarter of 2016.
Risk Evaluation		The site is a former gasoline service station and is currently vacant. There are no structures on the property except for foundations of former buildings. The owner hopes to develop the property for mixed commercial-residential use in the future, but there are currently no plans for development. Current site conditions pose a low risk, and the site meets the criteria of the SWRCB LTCP.		