

Summary Report

Underground Storage Tank Removal

at

2823 Adeline Street

Oakland, California



Prepared for:

Mr. Bob Hung

Berkeley, California

Prepared by:

INTERNATIONAL GEOLOGIC LLC

2831 Sylhowe Road

Oakland, California 94602

September 5, 2014

Mr. Bob Hung
PO Box 616
Berkeley, California 94701

September 5, 2014

Subject: Underground Storage Tank Closure at 2823 Adeline Street, Oakland, California.

Mr. Hung:

This report documents gasoline underground gasoline storage tank (UST) closure activities overseen by International Geologic (IG) at 2823 Adeline Street, Oakland, California. The scope of work included: 1) Coordinating with a qualified Hazardous Waste Contractor and obtaining permits; 2) abandonment in-place of one, 1,000-gallon gasoline UST; 3) Collecting for laboratory analysis native soil samples adjacent to the tank; 4) Collecting for laboratory analysis groundwater that was present in the UST excavation; 5) Sampling and laboratory analysis of excavated soils; 6) Excavation backfilling and compaction; and 9) evaluating analytical results in the context of regulatory considerations.

Due to the below sidewalk location of the UST being directly beneath a street light pole, the Oakland Fire Department (OFD) Inspector onsite ordered the tank to be abandoned in place. No detectable petroleum hydrocarbons or fuel oxygenates were found in the native soil adjacent to the UST or in the tank backfill. A groundwater sample collected of water entering the soil sampling location contained concentrations of gasoline range hydrocarbons and BTEX above Water Board Environmental Screening Levels (ESLs) which will trigger the OFD to refer the case to the Alameda County Department of Environmental Health (ACDEH). Soil samples were not collected next to the former dispenser area as is normally required. In the interest of avoiding the work of demolishing the dispenser pad, and repairing the floor, the soil sample in that area will be collected in conjunction with additional groundwater sampling downgradient of the UST that will be needed to confirm the preliminary finding. That work will be done with minimal impact to the floor.

Sincerely,



Project Manager
International Geologic

Summary Report

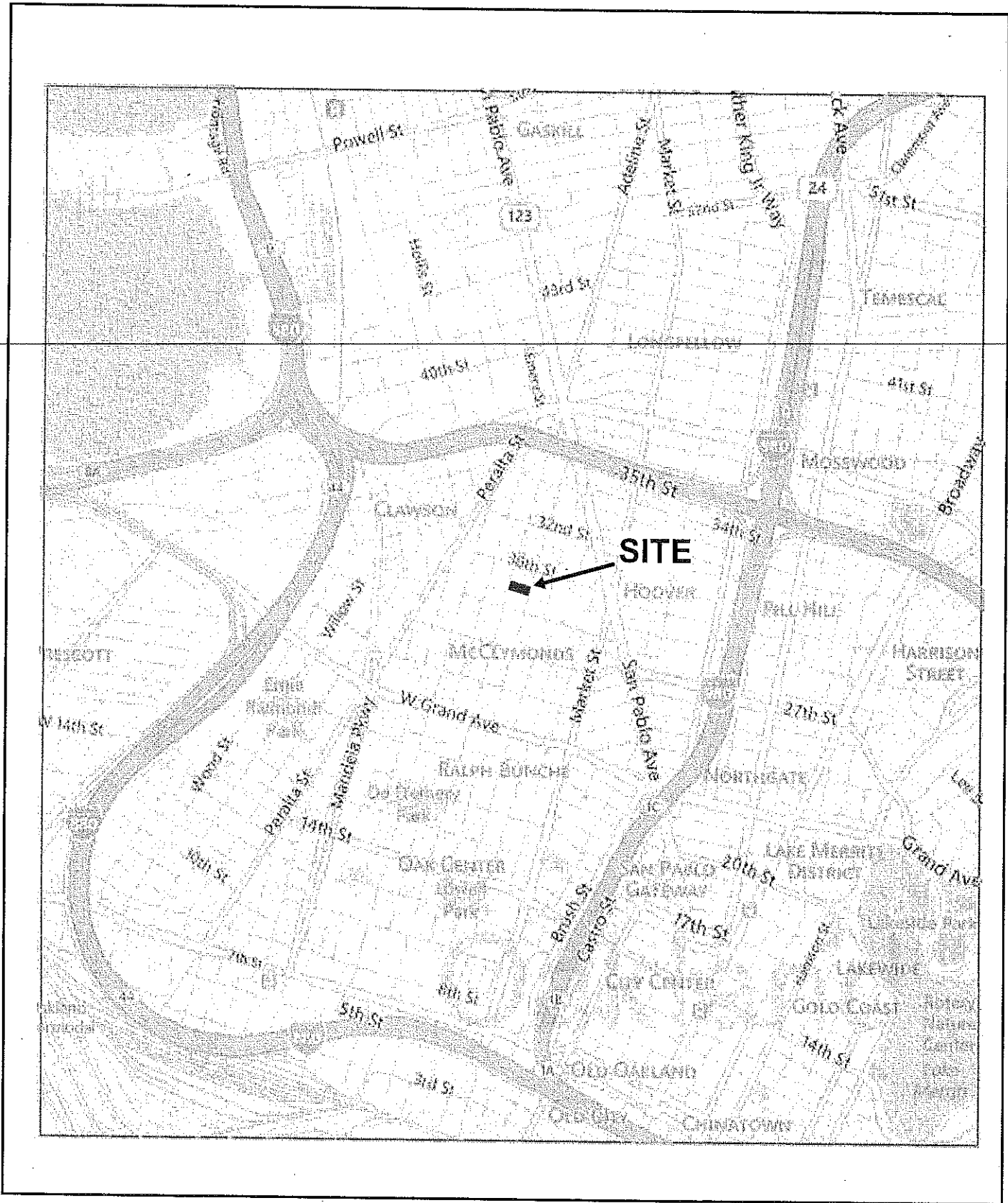
Underground Storage Tank Removal at 2823 Adeline Street Oakland, California

1.0 INTRODUCTION

Site Description and UST History

The project site is located on the west side of Adeline Street, 100 feet north of 28th Street in Oakland, California. The Property has an address of 2823 Adeline Street and extends to Magnolia Street to the west. A covered fill port, set in the concrete sidewalk in front of the building on the Adeline Street side of the Property with a metal tag reading "Associated Flying A Gasoline" wired to the fill cap was discovered as part of a Phase I assessment of the Property conducted by International Geologic in April, 2014. A probe inserted into the fill port determined the burial depth of the UST to be approximately 7.5 feet below the sidewalk, and the tank to be nearly empty. A small amount of liquid with an odor of aged gasoline was retrieved from the tank using a bailer. A vent pipe, typical to such systems was observed about 15 feet north of the fill port protruding from the sidewalk adjacent to the building and rising against the side of the building. A capped discharge line was located beneath a wooden cover set into the air and water station pad just inside the roll up door of the building about 10 feet to the west of the UST.

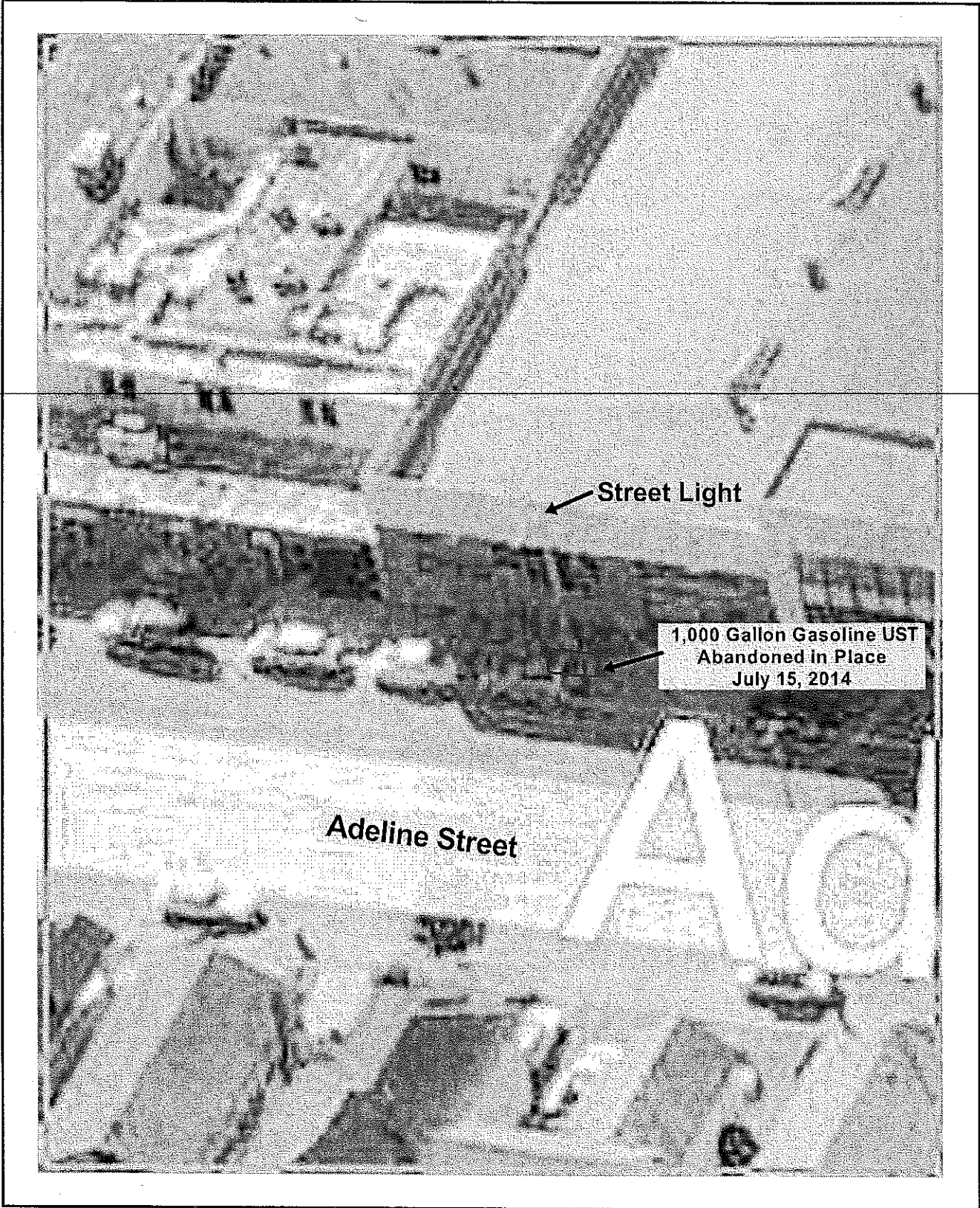
The UST was likely associated with former delivery truck operations at the Property. The date of installation of the UST is unknown; however, based on site history, the UST is estimated to be at least 60 years old, and has been out of service since the 1960's. There are no USTs currently registered for the Property with the State of California (EDR[®], 2014), and no records of USTs for the Property are recorded with local agencies. A Site Vicinity Map depicting the location of the Property is shown in Figure 1. Figure 2 shows the layout of the property including the former UST and dispenser locations.



INTERNATIONAL GEOLOGIC Job # 3402-2
 2823 Adeline Street
 Oakland, California



PROPERTY LOCATION MAP
FIGURE 1



Approximate Scale:
1" = 20'



2.0 UST REMOVAL AND SITE RESTORATION

This section summarizes the pre-field work planning, UST removal activities, and site restoration activities. Appendix A contains photodocumentation of key field activities. The following companies and agencies participated in the UST removal:

International Geologic (IG) (Oakland, California): Consultant responsible for environmental sampling and closure documentation.

City of Oakland Fire Department (OFD): Permitting agency for tank removal, and lead implementing agency with regard to any UST-related environmental issues.

Advanced Fuel Services (AFS): (California Engineering/Hazardous Materials Contractor No. 590259): Property owner (Hung Revocable Trust) contractor responsible for UST removal and site restoration.

Pre-Field Work Planning

Prior to UST removal, the appropriate permits and regulatory agency notifications were completed on behalf of the property owner (included in Appendix B). These include:

City of Oakland Building Department: Excavation permit application, and coordination of inspection for sidewalk restoration.

City of Oakland Fire Department: UST removal permit application, and coordination of OFD onsite inspection of UST removal. Prior to work, AFS prepared and submitted to the OFD a site-specific Health and Safety Plan, in accordance with State of California requirements.

Bay Area Air Quality Management District: Regulation 8 Rule 40 Notification.

UST and Piping Removal and Soil Stockpiling

On July 9, 2014, the approximately 5-inch-thick concrete sidewalk surface over the UST was broken up using a jackhammer and removed for offsite disposal. Sufficient backfill material was removed to expose the top of the UST which was approximately 3 feet below the concrete sidewalk. The tank was oriented with its long axis parallel to Adeline Street with the southern four feet of the UST positioned beneath a steel, street light pole that post-dates the UST. The UST was cylindrical, 4-feet in diameter by 10 feet long single-walled steel and estimated to be of about 1,000 gallon capacity,

and installed in gravelly clay native soil and backfilled with native material. Backfill removed from the tank excavation top and west side was field tested using a photo-ionization detector (PID). No reading above 1 part per million (ppm) was noted during excavation.

On July 10, 2014, the existing liquid in the tank (about 20 gallons) was vacuumed out for offsite disposal as hazardous waste. The interior of the UST was then washed with water (approximately 50 gallons), and the rinseate was again vacuumed out for offsite disposal as hazardous waste (discussed in a following subsection).

Between approximately 1:00 p.m. and 3:00 p.m. on July 10, 2014, the tank was vented and about 40 pounds of dry ice (solid carbon dioxide) was added to the UST to render its interior atmosphere inert (non-flammable). Upon examination by Inspector Sheryl Skillern of the OFD, it was agreed by all parties present that the removal of the UST would pose an unacceptable risk to the stability of the street light pole above it, and the order was given by Inspector Skillern to abandon the UST in-place. The product line lateral piping to the dispenser pad in the building was removed from the excavation and the vent line cut at the north end of the excavation.

UST Excavation Soil and Groundwater Confirmation Sampling

Excavation confirmation sampling was conducted immediately following the UST inerting procedure and was witnessed by Inspector Skillern of the OFD. The west (downgradient side) of the UST was excavated to a depth of about 8 feet bgs in two areas, and samples T-N-8 and T-S-8 were collected from soil brought to the surface in the backhoe bucket. Groundwater encountered at the 8 foot depth prevented further excavation. Samples were collected by driving new stainless steel soil sampling liners into the soil, labeled, entered onto a chain-of-custody form, and placed into a chilled ice chest for transportation to the laboratory. Some areas of discolored soil with no hydrocarbon odor or PID reading was present in the soil brought to the surface. Because water began collecting at the 8-foot depth, the water was pumped out, and then allowed to collect again before a sample was collected using laboratory cleaned glass containers. The water sample GW-1 was secured using the protocols described above.

In exposing the UST, a total of approximately 5 cubic yards of backfill material was removed. For public safety reasons, the available UST backfill was temporarily placed back into the excavation pending laboratory analyses of a 4-point composite sample (COMP-1) collected to confirm the suitability of the soil for re-use, using accepted protocols (see Section 3 for laboratory analytical results).

UST In-Place Abandonment Procedures

On July 15, 2014, the UST was re-exposed in order to proceed with filling the UST with sand/cement slurry. Approximately 5.5 cubic yards of sand/cement slurry was introduced into through a hole that had been ripped near the top of the tank wall. Excess sand/cement slurry was allowed to partially fill the excavation to assure the UST was filled to the top. Based on the laboratory analytical results showing lack of contamination,(discussed below in Section 3) excavated backfill material was placed back in the excavation and compacted prior to sidewalk restoration activities described below.

Waste Transport and Disposal

The approximately 70 gallons of UST rinseate and the UST piping are being temporarily stored onsite until additional groundwater testing can be conducted which may create added investigative wastes (Section 4).

Excavation Backfilling and Site Restoration

Restoration of the concrete sidewalk surface was completed on August 22, 2014. This work was inspected and approved by Mr. Yung Chen, Construction Inspector for the City of Oakland Design and Construction Services, Right of Way Management Division.

3.0 ANALYTICAL RESULTS AND REGULATORY CONSIDERATIONS

Laboratory Analytical Methods

The soil and groundwater samples collected during the UST abandonment were submitted under chain-of custody protocol to McCampbell Analytical Inc. (McCampbell) of Pittsburg, California. McCampbell is certified by the State of California to perform the requested analyses.

As specified in the UST permit application, and confirmed by Inspector Skillern at the time of the sampling, initial soil and groundwater samples collected from the UST area were analyzed for:

- TVH as gasoline (TVHg), naphthalene and BTEX plus fuel oxygenates MTBE, TBA and EDB by EPA Method 5030B/8260B;
- Tetraethyl and Tetramethyl Lead by EPA Method 3550B.

Laboratory Analytical Results

Tables 1 and 2 on the following pages summarize the analytical results of soil and groundwater samples collected during UST excavation confirmation sampling. Figure 3 depicts the UST system layout and sample locations with laboratory results. Appendix C contains the certified analytical laboratory reports and chain-of-custody records.

Laboratory quality control samples (e.g., method blanks, matrix spikes, surrogate spikes, etc.) were analyzed by the laboratory in accordance with requirements of each analytical method. All laboratory QC sample results and sample holding times were within the acceptance limits of the methods (Appendix C).

No detectable concentration of TVHg, naphthalene, BTEX or fuel oxygenates MTBE, TBA or EDB was detected in the soil samples T-N-8 and T-S-8 collected from 8 feet bgs at the west side of the excavation by the tank. No detectable concentration of tetraethyl or tetramethyl lead was detected in the soil samples T-N-8 or T-S-8.

The composite sample COMP-1 collected of the tank backfill material, did not contain detectable concentrations of TVHg, naphthalene, BTEX or fuel oxygenates. No detectable concentration of tetraethyl or tetramethyl lead was detected in sample COMP-1.

The initial groundwater grab sample collected from the tank excavation contained 2,000 µg/l TVHg, 97 µg/l benzene, 280 µg/l toluene, 31 µg/l ethylbenzene, 220 µg/l xylenes and 50 µg/l naphthalene. No MTBE or other fuel oxygenates were detected in the groundwater sample. The detection of 5.9 µg/l 1,2-dichloroethane is likely not related to the gasoline UST.

TABLE 1
SOIL SAMPLING ANALYTICAL RESULTS
2823 ADELIN STREET, OAKLAND, CA
JULY 10, 2014 UST CONFIRMATION SAMPLING

Analyte	T-N-8	T-S-8	COMP-1	ESL (mg/kg) Commercial	ESL (mg/kg) Residential
Lead					
Tetraethyl/Tetramethyl	ND	ND	ND	NLP	NLP
Gasoline and Volatiles					
TVHg	ND	ND	ND	500	100
Naphthalene	ND	ND	ND	1.2	1.2
Benzene	ND	ND	ND	0.044	0.044
Toluene	ND	ND	0.16	2.9	2.9
Ethylbenzene	ND	ND	0.069	3.3	3.3
Xylenes	ND	ND	0.43	2.3	2.3
MTBE	ND	ND	ND	0.023	0.023
TBA	ND	ND	ND	0.075	0.075
EDB	ND	ND	ND	NLP	NLP

Notes:

TVHg = Total volatile hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether

TBA = t-butyl alcohol

EDB = ethylene dibromide

All results are in milligrams per kilogram (mg/kg) unless otherwise indicated.

ESL = Environmental Screening Level (Water Board, 2013)

**TABLE 2
GRAB GROUNDWATER SAMPLING ANALYTICAL RESULTS
2823 ADELINE STREET, OAKLAND, CA
JULY 10, 2014 UST CONFIRMATION SAMPLING**

Analyte	GW-1	ESL (mg/kg) Commercial	ESL (mg/kg) Residential
Gasoline and Volatiles			
TVHg	2,000	100	100
Naphthalene	50	6.1	6.1
Benzene	97	0.044	0.044
Toluene	280	40	40
Ethylbenzene	31	30	30
Xylenes	220	20	20
MTBE	ND	5	5.000
TBA	ND	12	12
EDB	ND	NLP	NLP
1,2-DCA	5.9	0.5	0.5

Notes:

TVHg = Total volatile hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether

TBA = t-butyl alcohol

EDB = ethylene dibromide

1,2-DCA = 1,2 dichloroethane

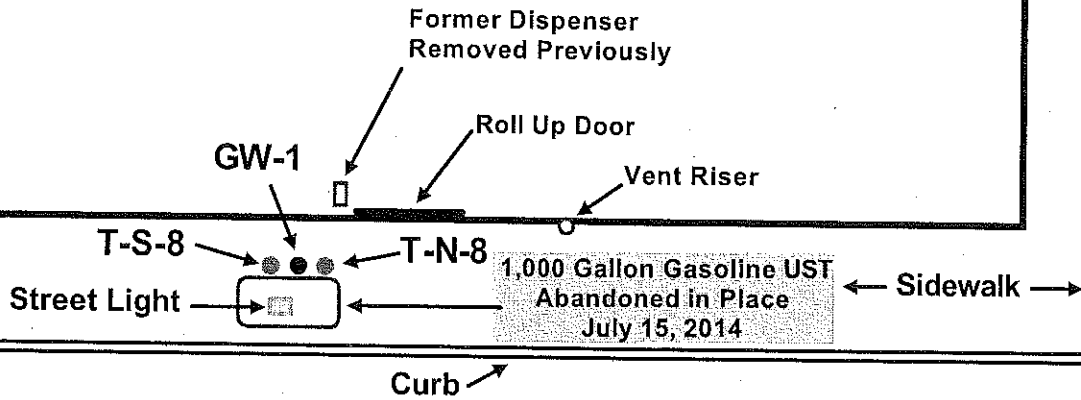
Results in micograms per kilogram (ug/kg) unless otherwise indicated

ESL = Environmental Screening Level (Water Board, 2013)

T-S-8 and T-N-8	
TVHg	ND
MBTEX	ND
Naphthalene	ND
TBA/EDB	ND

GW-1	
TVHg	2,000 ug/l
Benzene	97 ug/l
Toluene	280 ug/l
Ethylbenzene	31 ug/l
Xylenes	220 ug/l
Naphthalene	50 ug/l
MTBE/TBA/EDB	ND

Warehouse



← Adeline Street →

Curb →

- = Soil Sample
- = Grab Groundwater Sample

Approximate Scale:
1" = 15'



Discussion and Regulatory Considerations

Accessible soil backfill surrounding the UST was free of detectable gasoline and BTEX contamination. Because the location beneath a city street light pole dictated the in-place closure of the UST, the area directly beneath the tank remains unexplored. The concentrations of gasoline related hydrocarbons and BTEX detected in the grab groundwater sample exceeding 2013 California Water Board Environmental Screening Levels (ESLs), suggest leakage may have occurred beneath the tank. Shallow groundwater in this area of Oakland, approximately at the tank burial depth of about 8 feet bgs, coupled with bare steel construction of the tank is a likely cause for corrosion in this case.

The OFD is the lead regulatory agency for UST removal permitting, onsite inspection, and oversight of the collection of UST-related soil and groundwater samples. We understand that when UST-sourced residual soil and/or groundwater contamination is discovered, the OFD generally transfers the case to the Alameda County Department of Environmental Health (ACDEH). The ACDEH is a Local Oversight Program (LOP) to the Regional Water Quality Control Board, which has the ultimate authority in cases of soil or groundwater contamination by hydrocarbons. An Unauthorized Release Form (URF) has been completed and is included in Appendix D.

Soil samples were not collected next to the former dispenser area as is normally required. In the interest of avoiding the work of demolishing the dispenser pad, and repairing the floor, the soil sample in that area will be collected in conjunction with additional groundwater sampling downgradient of the UST that will be needed to confirm the preliminary finding.

4.0 RECOMMENDATIONS

- 1) Based on laboratory analyses indicating hydrocarbon impacts to groundwater in the UST pit, additional grab groundwater samples should be collected downgradient from the UST location. One of the sample locations should be located next to the former dispenser pad in the warehouse in order to allow collection of a soil sample in that area in addition to the groundwater sample.
- 2) UST rinsate and additional investigatory waste if generated, should be removed from the property under manifest after all additional site investigations are completed.
- 3) This summary report should be forwarded to the OFD as is required by that agency.

5.0 CERTIFICATION

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein is true and accurate, and the work was performed in accordance with professional standards.

Steve Bittman

September 5, 2014

Steve Bittman

Date

CA Registered Environmental Assessor No. 04991

6.0 LIMITATIONS

Our professional judgment regarding the potential for environmental impacts is based on limited data and our investigation was not intended to be a definitive investigation of contamination at the site. Further investigation, including subsurface exploration and laboratory testing of soil and groundwater samples collected at the site, can aid in evaluating subsurface environmental conditions and reduce the inherent uncertainties associated with this type of limited environmental assessment.

APPENDIX A

PHOTO DOCUMENTATION

Photo Log for 2823 Adeline Street, Oakland, California
International Geologic, July, 2014



Photo # 1. View of Property frontage from Adeline Street. UST is located beneath street light as indicated.

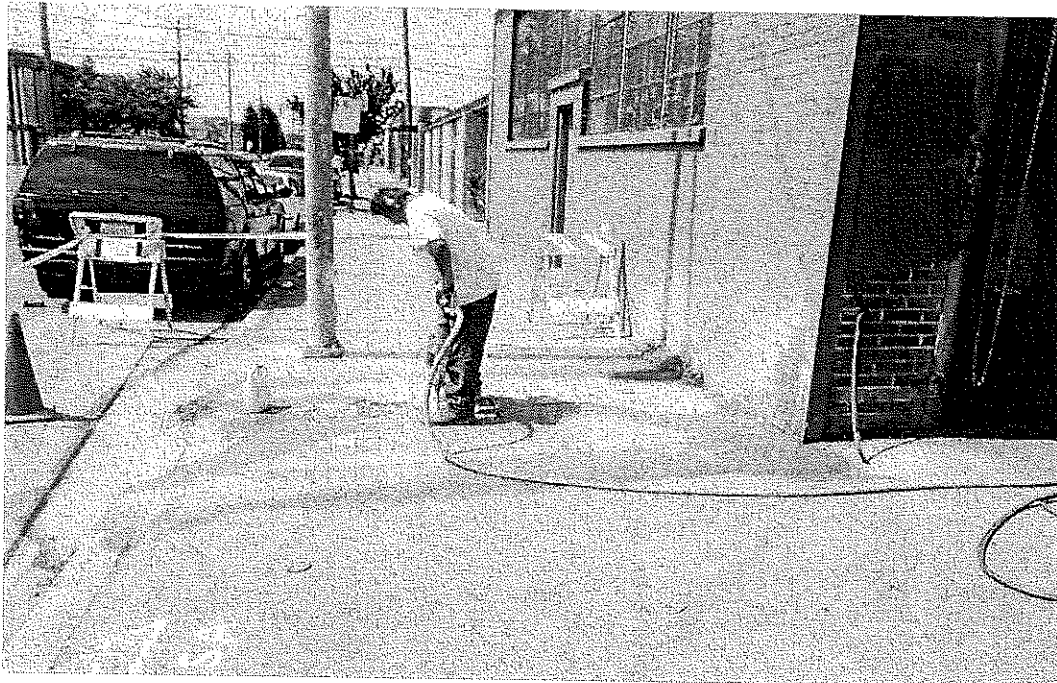


Photo # 2. Breaking up sidewalk.

Photo Log for 2823 Adeline Street, Oakland, California
International Geologic, July, 2014

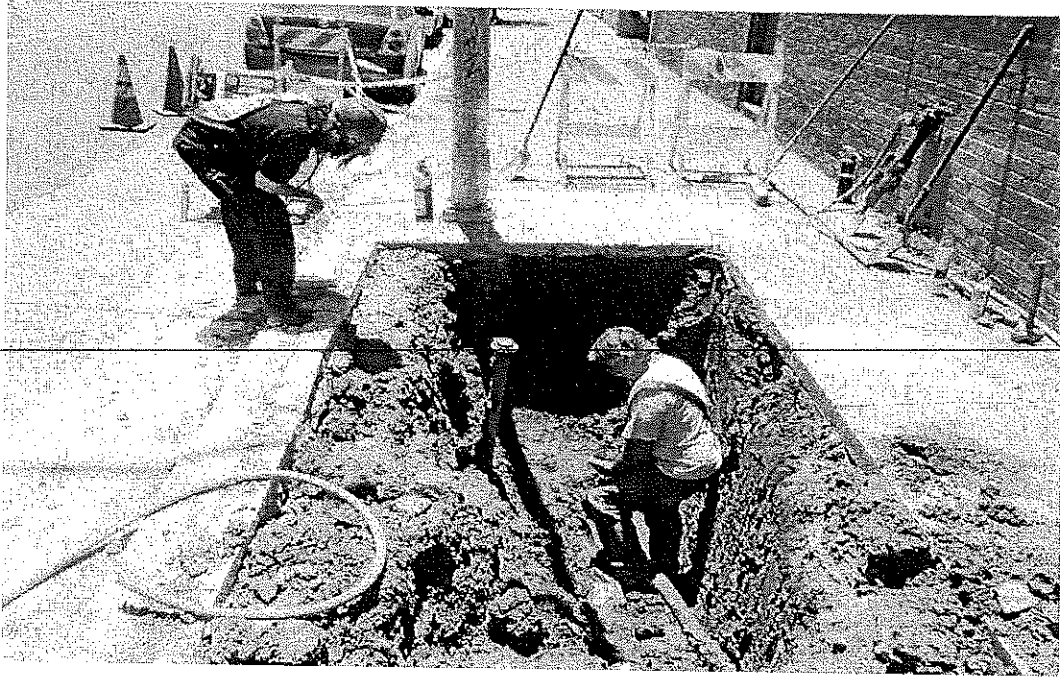


Photo # 3. Checking LEL under the supervision of Oakland Fire Department Inspector. Fill pipe is located approximately one foot from the UST north end. UST extends about 3 feet beyond the light post. The sidewalk concrete cuts were made before it became known that the UST extended beneath the light post.

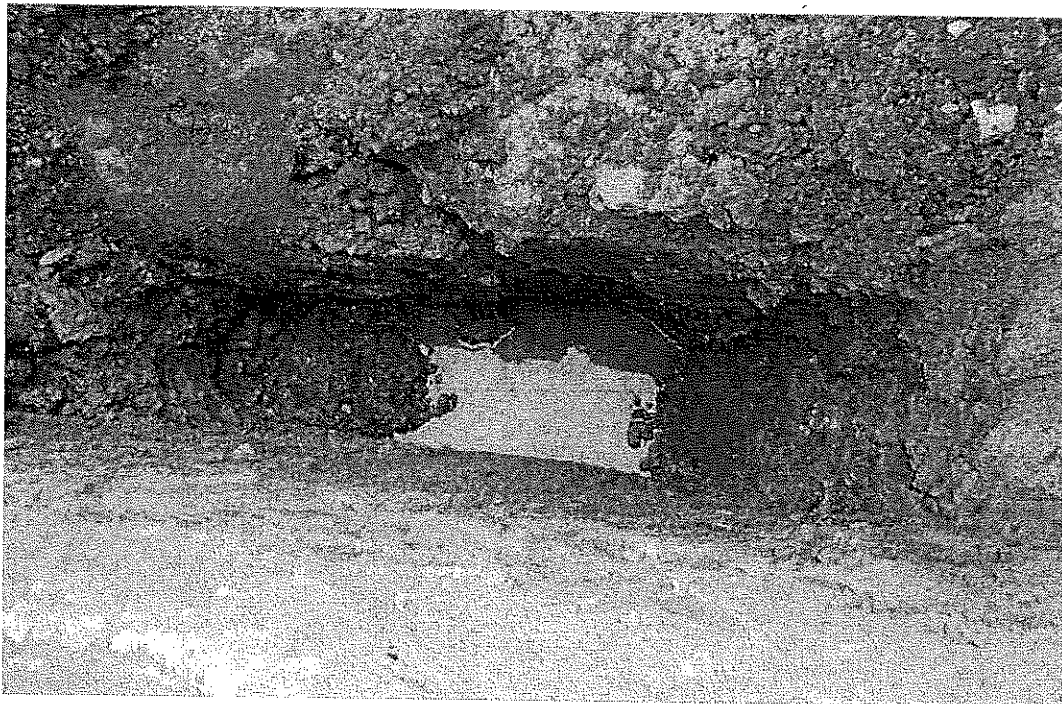


Photo # 4. Groundwater collecting in soil sampling location at a depth of about 8 feet below the ground surface.

Photo Log for 2823 Adeline Street, Oakland, California
International Geologic, July, 2014

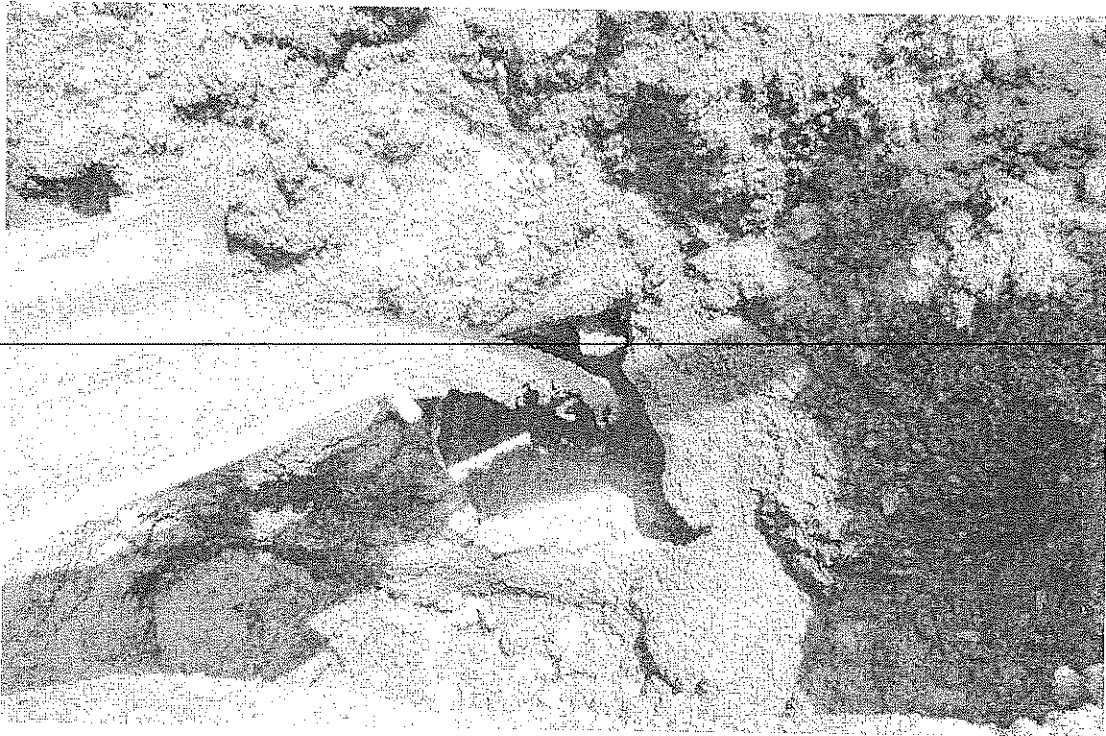


Photo # 5. Filling the UST with 5.5 yards of sand/cement slurry.

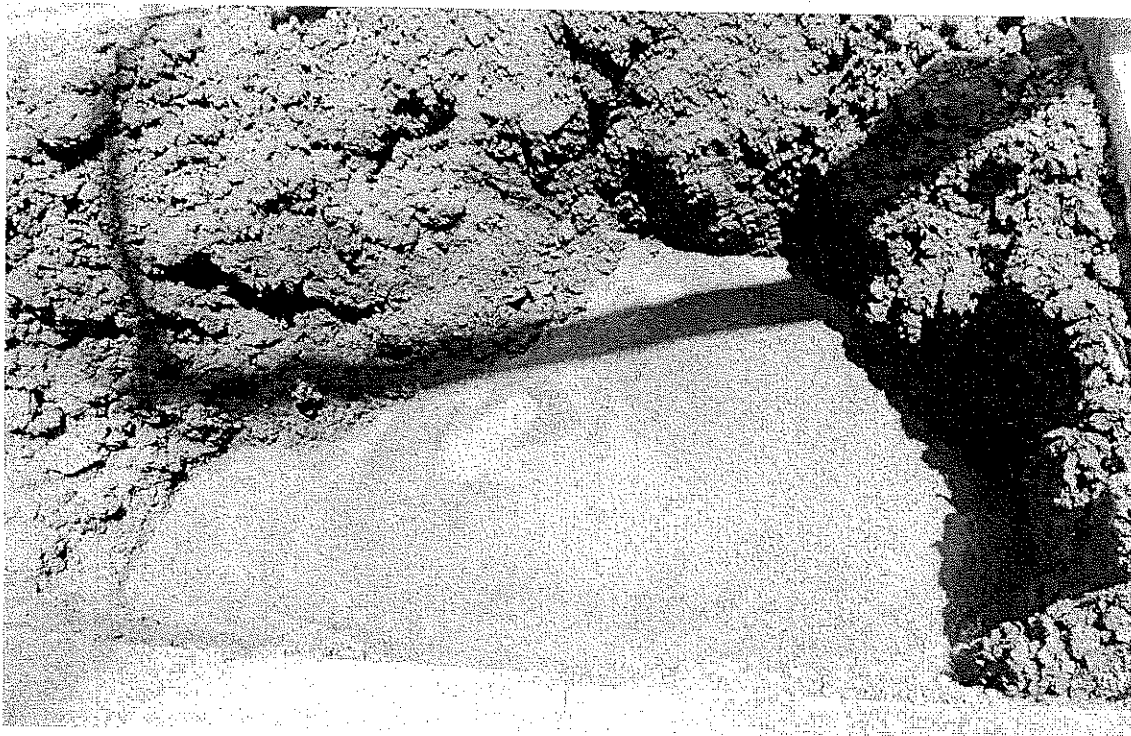


Photo # 6. UST completely filled with sand/cement slurry.

Photo Log for 2823 Adeline Street, Oakland, California
International Geologic, July, 2014

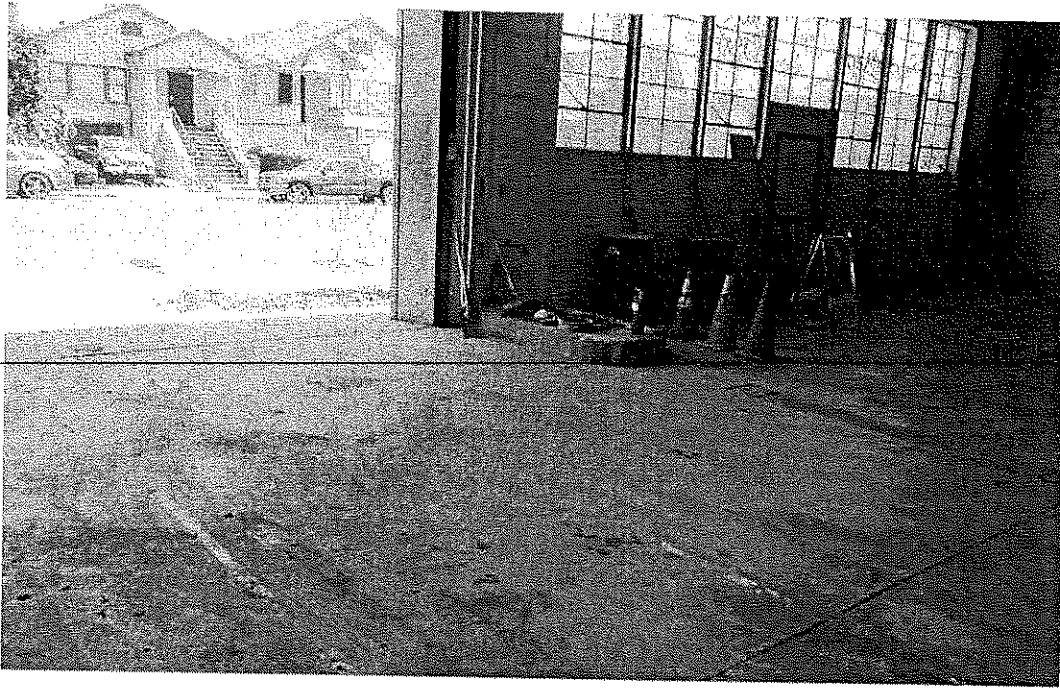


Photo # 7. Dispenser pad with UST excavation on the other side of the building wall. This area is to be explored at the same time the groundwater confirmation samples are taken downgradient of the UST location.

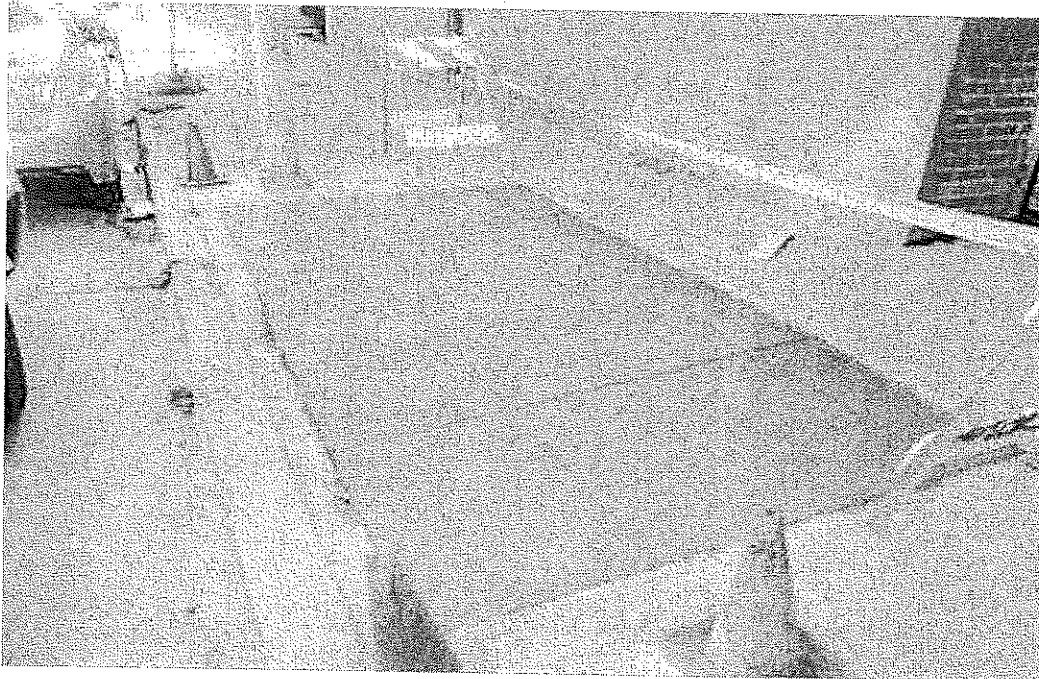


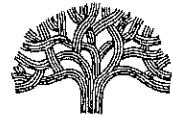
Photo # 8. Finished sidewalk repair.

APPENDIX B

PERMITS



Oakland Fire Department, Fire Prevention Bureau
 250 Frank H. Ogawa Plaza, Ste. 3341
 Oakland, CA 94612-2032



(510) 238-3851
 TTY (510) 238-6884

Inspection Work Order

Business Name:	Advance Fuel Services, Inc.	Reason:	Tanks
Address:	2823 ADELIN ST	Scheduled:	2014-06-30 3:00PM
Job (Insp Ref#):	2014-29785	Assigned To:	Skilern, Sheryl

Comments: 06/30/14 - Mr. Steve Bittman w/ Advance Fuel Sevices, Inc. paid \$668.00 (check # 1208) for the standard plan review including 1 tank removal inspection fees. - CL.
 06/20/14 - Mr. Jim Ruble of Advance Fuel Services, Inc., 408-690-5568, was given an invoice of

Invoice #	2014-01926	Applicant:	
Invoice Amount	668.00	Applicant Ph#:	
		Contractor:	
		Contractor Ph#:	
Contact Name		Jim Ruble	
Field Contact #		408-690-5568	
Review Type	UST		

REVIEWED AND APPROVED
 OAKLAND FIRE DEPARTMENT
 BY: *Sheryl Skilern*
 TITLE: *Senior Administrator*
 DATE: *7/7/14*
 ALL INSPECTIONS REQUIRE
 48 HOURS NOTICE



CITY OF OAKLAND
 FIRE PREVENTION BUREAU
 250 Frank Ogawa Plaza, Suite 3341
 Oakland, California 94612-2032
 (510) 238-3851

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS
 In the CITY OF OAKLAND

PLEASE CIRCLE APPROPRIATE ACTIONS: Request Submittal Date: July 2, 2014
 Application is hereby made for permit to:

- (a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place A
 (a) Gasoline (b) Fuel oil (c) Diesel (d) 1 tank(s) and excavate, commencing: July 7, 2014

(a) four feet inside the curb line*; (b) inside the property line; (c) aboveground; (d) underground tank(s)
 *inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the West side of Adeline St. 145 feet N of 28th St. Ave.

Site Address: 2823 Adeline St Present storage empty

Owner: Hung Revocable Trust Address: PO Box 616 Berkeley, CA 94710 Phone: (510) 548-5960

Applicant: Advanced Fuel Services address: 2261 Emerald Cir. Phone: 805-995-1517
Morro Bay, CA 93942

Sidewalk surface to be disturbed 10 x 25 Number of Tanks 1 Capacity 1,000 Gallons ca.

Remarks: Please schedule inspection July 8, 2014

Signature: Steve Butts for Jim Ruble

PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit) Account 28045960

- (2) Copies of Closure Plans for underground tank removal (s) emailed proof of payment 7/1/14
- (2) Sets of plans and (1) copy of specifications for above-ground tank removal.
- (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications.
- (2) Sets of plans for above-ground tank installation and specifications.
- copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair

NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE

FOR OFFICE USE ONLY

Permit No. _____ Amt. Recv'd _____ Date Issued: _____
 Copies to: Electrical Inspection ckt# _____ Cash _____
 Receipt# _____ Recv'd by: _____

REVIEWED AND APPROVED
 OAKLAND FIRE DEPARTMENT
 BY: [Signature]
 TITLE: SENDA HIZ MAJINS
 DATE: 7/2/14
 ALL INSPECTIONS REQUIRE
 48 HOURS NOTICE

FACILITY INFORMATION

Facility/Residence Name Hung Reynolds Trust Business Type vacant
 Site Address 2222 Adelphi St. City Oakland Zip 94608-9460
 Contact Person Robert Hung Title Trustee Phone 510-570-3960
 E-Mail none Cell Phone none
 Owner, Agency, or Corporation Name Hung Reynolds Trust Phone 510-570-3960
 Mailing Address P.O. Box 666 City Berkeley State CA Zip 94701
 EPA ID Number _____
 Note: Include "Proof of Financial Responsibility"

CONTRACTOR REMOVING TANK(S) AND PIPING:

Contractor Advanced Fuel Services Inc.
 Contract Person Van Rube Phone 408-483-4537
 Business Address P.O. Box 1346 City Moreno Valley Zip 92553
 State Contractors License 782269 A-1770 Lic.
 Note: Attach a copy of Contractors License, Hazardous Materials Certification, and Workers Compensation

HAZARDOUS WASTE HAULERS:

~~Hazardous Waste Hauler, Tank(s) Out on site EPA ID # _____
 Business Address _____ City _____
 Contact _____ Phone _____
 Tank(s) and piping destination _____
 Hazardous Waste Hauler (Kinstate) Excel Environmental EPA ID # CA100009350
 Business address 23599 Hansen Rd City Tracy
 Contact Tom Liggett Phone 909-374-6087
 Note: Include Hauler License No. 3662 License Exp. Date 2/28/15~~

See Revised Scope of work dated 7/3/14 by Sny/Spk

SAMPLE COLLECTION AND ANALYSIS:

Sample Collector Steve Bellman Company Intermedial Analytical
 Address 2831 Sylvan Rd City Oakland Phone 510-530-9757
 Soil/Water Analysis Laboratory McCann-Robb Analytical
 State certification No. #16447 Contact Melissa Waller Phone 925-252-9862
 Business Address 1525 Willow Pass Rd City Pittsburg Zip 94565

TANK(S) INFORMATION

TANK SYSTEM: SIZE (GALLONS)	TANK CONSTRUCTION	SUBSTANCE(S) PREVIOUSLY CONTAINED
TANK 1 <u>1,000 gal</u>	<u>corr. steel</u>	<u>uh</u>
TANK 2 _____	_____	_____
TANK 3 _____	_____	_____

REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
 BY: [Signature]
 TITLE: Senior Haz. Mat. Insp.
 DATE: 7/2/14
 ALL INSPECTIONS REQUIRE
 48 HOUR NOTICE

Applicant Declaration:

I certify the application information is correct and factual. I declare that I have read and will follow the "procedures to Close Underground Storage tank(s) Systems." I further agree to comply with all applicable City of Oakland Ordinances; Fire Code; Health and Safety Code Chapter 6.7; Title 23, California Code of Regulations.

Applicant Teron Kranich Applicant Teron Kranich Date 6/30/14
Print Signature

"This box for OFM use only"

Comments _____

Inspectors Signature [Signature] Approval Date 2/2/14

REVIEWED
OAKLAND
BY: [Signature]
TITLE: Senior Hazmat Insp
DATE: 2/2/14
ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

Advanced Fuel Services, Inc.
PO Box 1346
Morro Bay, CA 93443
PH: 805-995-1715
Fax: 805-995-1719

REVIEWED AND APPROVED OAKLAND FIRE DEPARTMENT BY: <i>[Signature]</i> TITLE: <i>Semi-Annual Haz Mat Ins</i> DATE: <i>7/3/14</i> ALL INSPECTIONS REQUIRE AFC HGT.

City of Oakland
Fire Prevention Bureau
Hazardous Materials Unit
250 Frank H. Ogawa Plaza
Ste. 3341
Oakland, CA 94612

07/03/14

Attn: Sheryl Skillern

Re: Hung Revocable Trust
2823 Adeline St.
Oakland, CA

SCOPE OF WORK

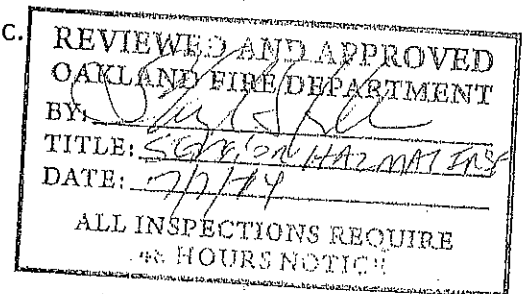
Remove an existing/abandoned gasoline tank located under the sidewalk at 2823 Adeline St.

1. USA alert will be notified and utilities marked.
2. AFS will demolish the sidewalk over the tank and remove spoils from the site.
3. We will excavate to tank top, spoils will be stored on 6 mil. black visqueen and covered (if soil appears contaminated, we will segregate the contaminated and non contaminated soil).
4. Remove and drum any residual product for disposal (with hazardous waste manifest).
5. Triple rinse tank and drum rinsate for disposal as above.
6. One hour prior to removing the tank, place 50 lbs. of dry ice in the tank to assure it is inerted.
7. In the presence of the AHJ, take LEL and oxygen readings with a recently calibrated meter.
8. When LEL readings are below 10% of gasoline's LEL, and with the approval of the AHJ, remove the tank from the excavation and allow the AHJ to examine the tank.
9. Load tank on a licensed hazardous waste hauler for delivery to ECI in Richmond.
10. Take soil or water samples under the direction of the AHJ (International Geologic will sample). Two soil samples will be taken from the tank pit, from undisturbed soil less than two feet below tank bottom. A four tube composite will be taken from the stockpile
11. Analyze samples for TPHG, BTEX, naphthalene, 7 oxygenates (including MTBE) and organic lead.
12. Submit samples to a state certified laboratory.
13. Backfill the excavation with removed spoils and imported material to sub grade. (NOTE: excavated spoils will not be reused unless they have been tested clean.
14. Replace disturbed concrete.

Any contaminated material will be left onsite for legal disposal later.

Jim Ruble, AFS

Advanced Fuel Services, Inc.
PO Box 1346
Morro Bay, CA 93443
PH: 805-995-1715
Fax: 805-995-1719



Advanced Fuel Services Inc. (Dale McAnally, Inc.)
dba Petrotek
Hung Revocable Trust
Site Specific Health and Safety Plan

Introduction:

This site specific Health and Safety Plan, developed in accordance with Occupational Safety and Health Administration (OSHA) standards for hazardous waste operations (29CFR1910.120), establishes general health and safety protocol for Petrotek personnel at the Hung Revocable Trust located at 2823 Adeline St., Oakland, California.

For informational purposes only, this plan may be provided to subcontractor of Petrotek and other personnel involved in activities at the Hung Revocable Trust site. However, other personnel are solely responsible for their own health and safety and shall independently assess onsite conditions and develop their own protocols. (Any parties using less stringent protocols should immediately notify the Petrotek site supervisor.)

Petrotek has a corporate health and safety program which covers general safety training on an ongoing weekly schedule. These aspects of the program are not repeated in this plan but are part of our safety requirements at all projects.

Site Description:

This project is to remove one underground storage tank, allegedly gasoline, from the sidewalk at 2823 Adeline St., Oakland.

Key Health and Safety Personnel:

The Petrotek Site Safety Officer assigned to this project is Anthony Mendez who is also the project supervisor. During any period of absence from the site, his replacement is the senior Petrotek employee on site.

Responsibility -

- Observe and enforce site safety conditions.
- Modify protocols or terminate field work when unsafe conditions exist.
- Familiarize site workers with all safety considerations.
- Ensure use of personal protective equipment when appropriate.
- Record reading and evaluate hazards with any site monitoring instruments.

Monitor decontamination activity.

Record all occurrences of site injury or illness and notify proper personnel if required.

If unsafe conditions are encountered, if illness or injury occurs or if level of personal protection needs to be changed, contact site safety supervisor, Anthony Menedez, or his representative.

Safety and Health Risk Evaluation:

Potential Physical and Chemical Hazard:

Field personnel should be aware of site physical and chemical safety hazard with the use of heavy equipment, chemicals and electrical equipment. Appropriate level D precautions include:

Hard hat, safety glasses and steel toe boots.

Chemical resistant glove, Tyvek coveralls.

Loose clothing that may catch and cause accidents will not be permitted.

Hearing protection if noise level above 85 decibels is expected.

Shoring of any excavation if over 5 feet deep if workers are to enter the excavation.

Use of ventilation and breathing equipment if confined space entry is required.

Washing hands and skin, particularly prior to eating.

Community Hazard Analysis:

No significant hazard to surrounding community is expected.

Site Control:

Access to the site shall be controlled by Petrotek personnel during this project and shall include traffic control measures, barricade and safety fencing with warning signs where appropriate. "No Smoking" signs will be posted on barricades. No smoking will be permitted within 50' of job site.

Monitoring:

Constant air monitoring shall be used if level of fumes dictate, (above 100 ppm) and work shall require Level C protection above 300 ppm. Level B protection is mandatory above 1000 ppm.

Decontamination:

Site work requiring only Level D protection will not require decontamination. If Level C protection is required, decontamination will consist of washing affected items with TSP or appropriate disposal.

Emergency Response Plan:

First Aid Kits shall be readily accessible on site. Fire extinguishers of 20BC capacity shall be removed from vehicle and placed no closer than 20' from excavation. Communication shall be verbal, by vehicle horn or personally (in high noise situations).

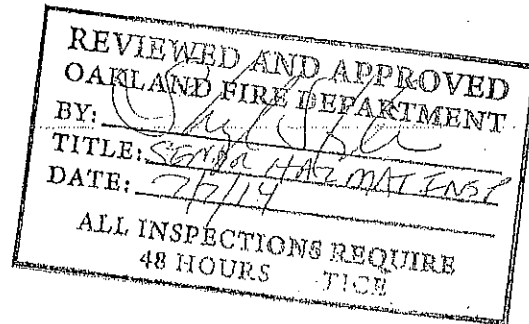
REVIEWED AND APPROVED
OAKLAND FIRE DEPARTMENT
BY: <i>[Signature]</i>
TITLE: <i>Semi-Annual Haz. Eval. Ins.</i>
DATE: <i>2/14</i>
ALL INSPECTIONS REQUIRE FIRE NOTIFICATION

Emergency Services Contacts
DIAL 911 or

Nearest Hospital: Alta Bates Summit Medical Center 510-655-4000
350 Hawthorne Ave.
Oakland, CA 94609

Fire Department: Oakland Fire	Dial 911
Police Department: Oakland Police	Dial 911
Poison Control:	800-792-0720
Chemtrack Emergency Information	800-424-9300
Underground Service Alert (USA):	800-642-2444
AFS office:	408-683-4537
AFS, Jim Ruble	408-690-5568
AFS, Eddie Martinez	408-690-5567

SIGNATURE MANDATORY PRIOR TO SITE ACCESS. ABSOLUTELY NO EXCEPTIONS PERMITTED.



Permits for which no major inspection has been approved within 180 days shall expire by limitation, no refund more than 180 days after expiration or final.



CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA • 2ND FLOOR • OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-230-2801
FAX: 510-230-2400
TDD: 510-230-2454

Permit No: K1401586 Excavation
Job Site: 2823 ADELPHI ST
Parcel No: OLS 0457102020

Filed Date: 6/26/2014
Schedule inspection by calling: 510-230-2444

District:
Project Description: Remove UG storage tank in SIDEWALK AREA ONLY.
FINE MARSHAL review required. 3rd FLOOR.
Call OWA INSPECTION prior to start: 510-230-2051. 4th FLOOR.

Related Permits:

Name	Applicant	Address	Phone	License #
Owner:	HUNG HANGY & MARIAM E TRS	2425 ASHBY AVE BERKELEY, CA		
Contractor:	DALE MCANALLY INC	5060 NEW AVE GHIROY, CA	(408) 683-4537	580296

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information	Special Paying Detail Required:	Tree Removals Involved:
Excavation Type: Private Party		Notice Restriction (Nov 1 - Jan 1)
Use Street Lay: Resurfaced		Limited Operation Area (7AM-5AM) and (4PM-6PM)
Worker's Compensation Company Name:		
Worker's Compensation Policy #:		
Key Dates		
Approximate Start Date:		
Approximate End Date:		

TOTAL FEES TO BE PAID AT FILING: \$436.05			
Application Fee	\$21.00	Excavation - Private Party Type	\$309.00
Technology Enhancement Fee	\$19.95	Records Management Fee	\$86.10

Plan Checked By _____ Date _____ Permit Issued By ll Date _____
Finalized By _____ Date _____

0.00
71.00
309.00
19.95
86.10
436.05
City of Oakland

Planning and Building Department

250 Frank H. Ogawa Plaza
Oakland, CA 94612
510-230-2474

844 Access Permit
Permit Number: K1401586
0.00 0.00
71.00 71.00
Application Fee
Fees
Excavation - Private Party Type
309.00 309.00
Fees
19.95 19.95
Technology Enhancement Fee
Fees
86.10 86.10
Records Management Fee

Payer Name: STEVE BITTMAN

Subtotal: 436.05
Total: 436.05
436.05
Master Card
Number: 1-888-444-4444

6/30/2014 02:07
510-230-2474

Thank You



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Regulation 8
Rule 40

REMOVAL OF UNDERGROUND STORAGE TANKS OR TREATMENT OF CONTAMINATED SOIL

SITE OF ACTIVITY

Site Address: 2823 Adeline Street	City & Zip: Oakland, 94608	Site#:
Specific Location of Project within Address: Sidewalk on Adeline Street in front of building		
Owner/Operator: Robert Hung, PO Box 616, Berkeley, CA 94710		

Check any that apply (400 numbers refer to regulation section requiring reporting):

Tank Removal or Replacement (401) Contaminated Soil Excavation and Removal (402)

Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption (403)

Section 114 Exempt; Date Pipeline Leak **Started:** _____ Vol. Of Soil: _____ (403)

Section 115 Exempt; Date Contamination Unrelated to UST Activities **Discovered:** _____ (405)

If only Tank Removal is selected, attach results showing soil is not contaminated

CONTRACTOR INFORMATION

Name: Advanced Fuel Services	Site Contact: Jim Ruble	Phone: (408) 690-5568
Address: 2261 Emerald Circle, Morro Bay CA 93442		

TANK REMOVAL (Section 401)

Scheduled Start Date: 6/23/14	Number and Size of Tank(s): (1) 1,000 gallon
--------------------------------------	---

Explain Methods of:

Piping drainage or flushing (310.1) Gravity/pump into Drum

Liquid and sludge removal (310.2) Vacuum into tanker

Vapor removal (310.3) [Check One] Water Displacement Vapor Freeing* Ventilation*

* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.

COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)

CONTAMINATED SOIL EXCAVATION AND REMOVAL (Section 402)

Scheduled Start Date: 6/24/14	Scheduled Completion Date: 6/24/14
--------------------------------------	---

Purpose of Excavation: Remove gasoline contaminated soil as practical

Quantity of Soil: unknown **Organic Content & Type:** Gasoline range HC's/BTEX

Methods used to quantify and analyze soil: Screen with PID, analyze by certified laboratory

Method of Stockpile Control (304-306)

Water Spray Covered Vapor Suppressant (List Material Used): _____

Method of Site Closure (306)

Backfilled Contaminated Soil Removed

Onsite Treatment (Describe): _____ A/C or P/O #: _____

Loaded Trucks Covered? (306.2) Yes No

AERATION OF SOIL < 50 PPMW ORGANIC CONTENT (Section 403)

You must submit a Permit Application and Risk Screening Analysis (Forms will be sent to you)

FOR BAAQMD USE ONLY

Fax/PM Date:	By:	Disp to I#:	Area:	Date:	By:
Inv Req Date:	By:	Fwd to Supv.		Date:	By:

See Page Two to Complete This Form

Approved 7/8/03

OTHER PUBLIC AGENCY CONTACTED (Fire District, Hazardous Materials, City or County)?		
Agency Name: Oakland Fire Department	Contact Name: Keith Matthews	
Address: 150 Frank H. Ogawa Plaza, Suite 3354, Oakland, CA 94612	Phone: (510) 238-3927	
EMERGENCY REMOVAL ORDER APPLICABLE?		
Agency Name: N/A	Contact Name:	
Address:	Phone:	

H:\Pub_data\Janet\Reg 8-40\forms\notifdraft3.doc

GENERAL INFORMATION

- This notification form shall be used to notify the BAAQMD of any projects subject to the reporting requirements in Regulation 8, Rule 40, Sections 401 through 405. Notifications may be faxed to (415) 928-0338 or mailed to the address listed at the bottom of this form.
- An invoice for payment will be sent to the person listed under "Contractor Information" as the person responsible, unless the project is exempt from fee payment (see next item).
- See "Frequently Asked Questions" (FAQ) for definition of projects, change procedures, permit requirements, emergency conditions, project exemptions, and fee exemptions. For any questions not answered in the FAQ, contact the Compliance Assistance Counselor at (415) 749-4999.

INSTRUCTIONS

- **SITE OF ACTIVITY:** Give the site street address and indicate if it has any existing BAAQMD site number, for either a plant or GDF. Identify the specific project location if the site contains more than one building. Indicate all applicable activity types by checking appropriate boxes. For reporting requirements under Sections 401 through 403, additional information is required, as below.
- **CONTRACTOR INFORMATION:** Identify the contractor that is responsible for performing the work at the site location listed. This contractor is also responsible for payment of the applicable notification fee, if the project is not exempt.
- **SECTION 401 - TANK REMOVAL/REPLACEMENT:** All soils disturbed and/or excavated as part of the tank removal shall be subject to the requirements of Sections 304 through 306, unless the soil has been determined not to be contaminated by measurement of organic content using the procedures in Sections 601 and 602. Complete requirements for Section 402 or submit sample results showing that the soil is not contaminated.
- **SECTION 402 - CONTAMINATED SOIL EXCAVATION AND REMOVAL:**
 - Be as accurate as possible for the Scheduled Start and Completion Dates. Specific requirements apply for excavation projects triggered within either 45 or 90 days (Reg. 8-40-306.4) and Authority to Construct requirements for projects lasting longer than three months (Reg. 2-1-128.16).
 - If a vapor suppressant is used, attach a product data sheet or MSDS.
 - If Method of Site Closure used is Onsite Treatment, describe specific method, (e.g., bioremediation, vapor extraction, air sparging, thermal desorption, etc.).
 - If Onsite Treatment is used, indicate whether an Authority to Construct was obtained by providing the Application No. or attach copy of BAAQMD Certification of Exemption.
- **SECTION 403 - AERATION OF SOIL < 50 PPMW ORGANIC CONTENT:** Section 301 exempts from control the aeration of soil containing less than 50 ppmw of organic compounds, but Section 403 still requires reporting of **ANY** soil aeration. If such a project does not meet the exemption criteria of Section 118, then a Permit Application and Risk Screening Analysis must be submitted.
- **EMERGENCY REMOVAL INFORMATION (IF APPLICABLE):** The rule defines an emergency tank removal or excavation of contaminated soil as "carried out pursuant to an order of a state or local government agency issued because the contaminated soil poses an imminent threat to public health and safety." If the project(s) meet this definition, then identify the agency that issued the order. Under Section 402 requirements, on line two, identify the purpose as indicated in the order.

**UNIFIED PROGRAM CONSOLIDATED FORM
TANKS
UNDERGROUND STORAGE TANKS - FACILITY**

(One page per site) Page 1 of 1

TYPE OF ACTION (Check one from only) 1. NEW PERMIT 3. RENEWAL PERMIT 4. AMENDED PERMIT (Specify change) 5. TEMPORARY SITE CLOSURE 6. CHANGE OF INFORMATION 7. PERMANENTLY CLOSED SITE 8. TANK REMOVED

I. FACILITY/SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DUA - Doing Business As) **Hung Revocable Trust** FACILITY ID# _____

NEAREST CROSS STREET **28th**

BUSINESS TYPE 1. GAS STATION 2. DISTRIBUTOR 3. FARM 4. PROCESSOR 5. COMMERCIAL 6. OTHER

TOTAL NUMBER OF TANKS REMAINING AT SITE **0** Is facility on Indian Reservation or trust lands? Yes No

FACILITY OWNER TYPE 1. CORPORATION 2. INDIVIDUAL 3. PARTNERSHIP 4. LOCAL AGENCY/DISTRICT* 5. COUNTY AGENCY* 6. STATE AGENCY* 7. FEDERAL AGENCY*

* If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST. (This is the contact person for the tank records.)

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME **Hung Revocable Trust** PHONE **510-548-5960**

MAILING OR STREET ADDRESS **P.O. Box 616**

CITY **Barkley** STATE **CA** ZIP CODE **94701**

PROPERTY OWNER TYPE 1. CORPORATION 2. INDIVIDUAL 3. PARTNERSHIP 4. LOCAL AGENCY / DISTRICT 5. COUNTY AGENCY 6. STATE AGENCY 7. FEDERAL AGENCY

III. TANK OWNER INFORMATION

TANK OWNER NAME **same as property owner** PHONE _____

MAILING OR STREET ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

TANK OWNER TYPE 1. CORPORATION 2. INDIVIDUAL 3. PARTNERSHIP 4. LOCAL AGENCY/DISTRICT 5. COUNTY AGENCY 6. STATE AGENCY 7. FEDERAL AGENCY

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- _____ Call (916) 322-9669 if questions arise

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(S) 1. SELF-INSURED 2. GUARANTEE 3. INSURANCE 4. SURETY BOND 5. LETTER OF CREDIT 6. EXEMPTION 7. STATE FUND 8. STATE FUND & CFO LETTER 9. STATE FUND & CEI 10. LOCAL GOV'T MECHANISM 11. OTHER _____

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check two box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked. 1. FACILITY 2. PROPERTY OWNER 3. TANK OWNER

VII. APPLICANT SIGNATURE

Certification: I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT _____ DATE **8/16/2014** PHONE **408-683-4537**

NAME OF APPLICANT (print) **James C. Ruble** TITLE OF APPLICANT **Construction Manager**

STATE UST FACILITY NUMBER (Agency use only) _____ UST UPGRADE CERTIFICATE NUMBER (Agency use only) _____

(See Data Element I, above.)

**UNITED PROGRAM CONSOLIDATED FORM
TANKS
UNDERGROUND STORAGE TANKS - TANK PAGE 1**

(Two pages per tank)

Page 1 of 2

TYPE OF ACTION (Check one item only)	<input type="checkbox"/> 1. NEW PERMIT	<input type="checkbox"/> 2. AMENDED PERMIT	<input type="checkbox"/> 3. CHANGE OF INFORMATION	<input type="checkbox"/> 4. TEMPORARY TANK CLOSURE	410
	<input type="checkbox"/> 5. RENEWAL PERMIT			<input type="checkbox"/> 7. PERMANENTLY CLOSED ON-SITE	
	(Specify reason)		(Specify reason)		
				<input checked="" type="checkbox"/> 8. TANK REMOVED	

BUSINESS NAME (Same as FACILITY NAME or UBA - Doing Business As) Hamp Revocable Trust	1. FACILITY ID:	
LOCATION WITHIN SITE (optional)		

I. TANK DESCRIPTION

(A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID #	TANK MANUFACTURER	COMPARTMENTALIZED TANK <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	unknown		
DATE INSTALLED (YEAR/MO)	TANK CAPACITY IN GALLONS	NUMBER OF COMPARTMENTS	
unknown	1,000	1	
ADDITIONAL DESCRIPTION (if local use only)			

II. TANK CONTENTS

TANK USE	PETROLEUM TYPE	
<input checked="" type="checkbox"/> 1. MOTOR VEHICLE FUEL (If blended, complete Petroleum Type)	<input checked="" type="checkbox"/> 1a. REGULAR UNLEADED	<input type="checkbox"/> 5. JET FUEL
<input type="checkbox"/> 2. NON-FUEL PETROLEUM	<input type="checkbox"/> 1b. PREMIUM UNLEADED	<input type="checkbox"/> 6. AVIATION GAS
<input type="checkbox"/> 3. CHEMICAL PRODUCT	<input type="checkbox"/> 2. LEADED	<input type="checkbox"/> 99. OTHER
<input type="checkbox"/> 4. HAZARDOUS WASTE (Include Class Oil)	<input type="checkbox"/> 3. DIESEL	
<input type="checkbox"/> 99. UNKNOWN	<input type="checkbox"/> 4. GASOLINE	
	COMMON NAME (from hazardous materials inventory page)	CASE# (from Hazardous Materials Inventory page)

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only)	<input checked="" type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER	<input type="checkbox"/> 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM
	<input type="checkbox"/> 2. DOUBLE WALL	<input type="checkbox"/> 4. SINGLE WALL IN A VAULT	<input type="checkbox"/> 99. UNKNOWN
TANK MATERIAL - primary tank (Check one item only)	<input checked="" type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 3. FIBERGLASS/PLASTIC	<input type="checkbox"/> 5. CONCRETE
	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)	<input type="checkbox"/> 99. OTHER
TANK MATERIAL - secondary tank (Check one item only)	<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 3. FIBERGLASS/PLASTIC	<input type="checkbox"/> 5. CONCRETE
	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)	<input type="checkbox"/> 99. OTHER
TANK INTERIOR LINING OR COATING (Check one item only)	<input type="checkbox"/> 1. RUBBER LINED	<input type="checkbox"/> 3. EPOXY LINING	<input type="checkbox"/> 5. GLASS LINING
	<input type="checkbox"/> 2. ALKYLID LINO	<input type="checkbox"/> 4. PHENOLIC LINING	<input type="checkbox"/> 99. OTHER
OTHER CORROSION PROTECTION (If Applicable)	<input type="checkbox"/> 1. MANUFACTURED CATHODIC PROTECTION	<input type="checkbox"/> 3. FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/> 99. UNKNOWN
	<input type="checkbox"/> 2. SACRIFICIAL ANODE	<input type="checkbox"/> 4. IMPRESSED CURRENT	<input type="checkbox"/> 99. OTHER
SPILL AND OVERFILL (Check one item only)	YEAR INSTALLED	TYPE	OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED
<input type="checkbox"/> 1. SPILL CONTAINMENT	no	no	<input type="checkbox"/> 1. ALARM
<input type="checkbox"/> 2. DROW TUBE	no	no	<input type="checkbox"/> 3. FILL TUBE SHUT-OFF VALVE 1997
<input type="checkbox"/> 3. STRIKER PLATE	no	no	<input type="checkbox"/> 2. BALL FLOAT
			<input type="checkbox"/> 4. EXEMPT

IV. TANK LEAK DETECTION

(A description of the monitoring program shall be submitted to the local agency.)

IF SINGLE WALL TANK (Check all that apply)	IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only)
<input type="checkbox"/> 1. VISUAL (EXPOSED PORTION ONLY)	<input type="checkbox"/> 1. VISUAL (SINGLE WALL IN VAULT ONLY)
<input type="checkbox"/> 2. AUTOMATIC TANK OVERFILL (ATO)	<input type="checkbox"/> 2. CONTINUOUS INTERSTITIAL MONITORING
<input type="checkbox"/> 3. CONTINUOUS ATO	<input type="checkbox"/> 3. MANUAL MONITORING
<input type="checkbox"/> 4. STATISTICAL INVENTORY RECONCILIATION (SIR) + BIENNIAL TANK TESTING	
<input type="checkbox"/> 5. MANUAL TANK GAUGING (MTO)	
<input type="checkbox"/> 6. VADOSE ZONE	
<input type="checkbox"/> 7. GROUNDWATER	
<input type="checkbox"/> 8. TANK TESTING	
<input type="checkbox"/> 99. OTHER	

V. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY)	ESTIMATED QUANTITY OF SUBSTANCE REMAINING	TANK FILLED WITH INERT MATERIAL?
01/01/1970	0 gallons	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**UNIFIED PROGRAM CONSOLIDATED FORM
TANKS**

UNDERGROUND STORAGE TANKS - TANK PAGE 2

Page 2 of 2

VI. PIPING CONSTRUCTION (Check all that apply)

(UNDERGROUND PIPING)				(ABOVEGROUND PIPING)			
SYSTEM TYPE	<input type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY		<input type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY
CONSTRUCTION/ MANUFACTURER	<input type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 2. LINED TRENCH	<input type="checkbox"/> 3. OTHER		<input type="checkbox"/> 1. SINGLE WALL	<input checked="" type="checkbox"/> 2. UNKNOWN	<input type="checkbox"/> 3. OTHER
MANUFACTURER	<input type="checkbox"/> 1. DOUBLE WALL	<input checked="" type="checkbox"/> 2. UNKNOWN			<input type="checkbox"/> 1. DOUBLE WALL	<input type="checkbox"/> 2. OTHER	
<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS <input type="checkbox"/> 4. FIBROGLASS <input type="checkbox"/> 5. STEEL W/COATING				<input type="checkbox"/> 6. FRP COMPATIBLE WITH 100% METHANOL <input type="checkbox"/> 7. GALVANIZED STEEL <input type="checkbox"/> 8. ELASTIC COMPATIBLE W/ CONTENTS <input type="checkbox"/> 9. FIBROGLASS <input type="checkbox"/> 10. STEEL W/COATING			
<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS <input type="checkbox"/> 4. FIBROGLASS <input type="checkbox"/> 5. STEEL W/COATING				<input type="checkbox"/> 6. FRP COMPATIBLE WITH 100% METHANOL <input type="checkbox"/> 7. GALVANIZED STEEL <input type="checkbox"/> 8. ELASTIC COMPATIBLE W/ CONTENTS <input type="checkbox"/> 9. FIBROGLASS <input type="checkbox"/> 10. STEEL W/COATING			

VII. PIPING LEAK DETECTION (Check all that apply) (A description of the monitoring program shall be submitted to the local agency)

(UNDERGROUND PIPING)	(ABOVEGROUND PIPING)
SINGLE WALL PIPING PRESSURIZED PIPING (Check all that apply): <input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT-OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS. <input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST <input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH) CONVENTIONAL SUCTION SYSTEMS <input type="checkbox"/> 4. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH) SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING): <input type="checkbox"/> 5. SELF MONITORING GRAVITY FLOW <input type="checkbox"/> 6. BIENNIAL INTEGRITY TEST (0.1 GPH) SECONDARILY CONTAINED PIPING PRESSURIZED PIPING (Check all that apply): <input type="checkbox"/> 7. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one) <input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS <input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE AND SYSTEM DISCONNECTION <input type="checkbox"/> c. NO AUTO PUMP SHUT OFF <input type="checkbox"/> 8. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION <input type="checkbox"/> 9. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION/GRAVITY SYSTEM <input type="checkbox"/> 10. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS EMERGENCY GENERATORS ONLY (Check all that apply) <input type="checkbox"/> 11. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 12. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION <input type="checkbox"/> 13. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 14. DAILY VISUAL CHECK	SINGLE WALL PIPING PRESSURIZED PIPING (Check all that apply): <input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS. <input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST <input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 4. DAILY VISUAL CHECK CONVENTIONAL SUCTION SYSTEMS (Check all that apply): <input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM <input type="checkbox"/> 6. TRIENNIAL INTEGRITY TEST (0.1 GPH) SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING): <input type="checkbox"/> 7. SELF MONITORING GRAVITY FLOW (Check all that apply): <input type="checkbox"/> 8. DAILY VISUAL MONITORING <input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH) SECONDARILY CONTAINED PIPING PRESSURIZED PIPING (Check all that apply): <input type="checkbox"/> 10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one) <input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS <input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE AND SYSTEM DISCONNECTION <input type="checkbox"/> c. NO AUTO PUMP SHUT OFF <input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR <input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION/GRAVITY SYSTEM <input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS EMERGENCY GENERATORS ONLY (Check all that apply) <input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 17. DAILY VISUAL CHECK

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF BREAR VALVE	<input type="checkbox"/> 4. DAILY VISUAL CHECK
DATE INSTALLED	<input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 5. TRENCH/LINER MONITORING
HOLES	<input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 6. NONE

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE: 06/16/14
NAME OF OWNER/OPERATOR (print): Jim Ruble for Robert Hung	TITLE OF OWNER/OPERATOR: Const. mgr., Advanced Fuel Services Inc.

Permit Number (Agency use only)	Permit Approved By (Agency use only)	Permit Expiration Date (Agency use only)
---------------------------------	--------------------------------------	--

APPENDIX C

LABORATORY DATA SHEETS

AND

CHAIN OF CUSTODY RECORDS



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1407332

Report Created for: International Geologic
2831 Sylhowe Road
Oakland, CA 94602

Project Contact: Steve Bittman

Project P.O.:

Project Name: Adeline

Project Received: 07/10/2014

Analytical Report reviewed & approved for release on 07/11/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: International Geologic
Project: Adeline
WorkOrder: 1407332

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

S spike recovery outside accepted recovery limits



Analytical Report

Client: International Geologic
Project: Adeline
Date Received: 7/10/14 18:08
Date Prepared: 7/10/14

WorkOrder: 1407332
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T-N-8	1407332-001A	Soil	07/10/2014	GC28	92544
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		0.25	1	07/10/2014 23:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Toluene-d8	105		70-130		07/10/2014 23:41
T-S-8	1407332-002A	Soil	07/10/2014	GC28	92544
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		0.25	1	07/11/2014 00:19
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Toluene-d8	109		70-130		07/11/2014 00:19
Comp-1	1407332-003A	Soil	07/10/2014	GC28	92544
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		0.25	1	07/11/2014 00:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Toluene-d8	110		70-130		07/11/2014 00:57



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: International Geologic
Project: Adeline
Date Received: 7/10/14 18:08
Date Prepared: 7/11/14

WorkOrder: 1407332
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
GW-1	1407332-004A	Water	07/10/2014	GC28	92591
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	2000		500	10	07/11/2014 01:35
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Toluene-d8	98		70-130		07/11/2014 01:35



Analytical Report

Client: International Geologic
Project: Adeline
Date Received: 7/10/14 18:08
Date Prepared: 7/10/14

WorkOrder: 1407332
Extraction Method: SW3550B
Analytical Method: MAI-Organic Pb
Unit: mg/Kg

Organic Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T-N-8	1407332-001A	Soil/TOTAL	07/10/2014	GC20	92588
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Tetraethyl Lead as Lead	ND		0.0060	1	07/11/2014 02:12
Tetramethyl Lead as Lead	ND		0.010	1	07/11/2014 02:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	120		70-130		07/11/2014 02:12
T-S-8	1407332-002A	Soil/TOTAL	07/10/2014	GC20	92588
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Tetraethyl Lead as Lead	ND		0.0060	1	07/11/2014 01:16
Tetramethyl Lead as Lead	ND		0.010	1	07/11/2014 01:16
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	124		70-130		07/11/2014 01:16
Comp-1	1407332-003A	Soil/TOTAL	07/10/2014	GC20	92588
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Tetraethyl Lead as Lead	ND		0.0060	1	07/11/2014 00:21
Tetramethyl Lead as Lead	ND		0.010	1	07/11/2014 00:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	122		70-130		07/11/2014 00:21



Analytical Report

Client: International Geologic
Project: Adeline
Date Received: 7/10/14 18:08
Date Prepared: 7/10/14

WorkOrder: 1407332
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

MTBE and BTEX by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T-N-8	1407332-001A	Soil	07/10/2014	GC28	92544
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.0050	1	07/10/2014 23:41
t-Butyl alcohol (TBA)	ND		0.050	1	07/10/2014 23:41
1,2-Dibromoethane (EDB)	ND		0.0040	1	07/10/2014 23:41
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	07/10/2014 23:41
Ethylbenzene	ND		0.0050	1	07/10/2014 23:41
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	07/10/2014 23:41
Naphthalene	ND		0.0050	1	07/10/2014 23:41
Toluene	ND		0.0050	1	07/10/2014 23:41
Xylenes, Total	ND		0.0050	1	07/10/2014 23:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	91		70-130		07/10/2014 23:41
Toluene-d8	96		70-130		07/10/2014 23:41
T-S-8	1407332-002A	Soil	07/10/2014	GC28	92544
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.0050	1	07/11/2014 00:19
t-Butyl alcohol (TBA)	ND		0.050	1	07/11/2014 00:19
1,2-Dibromoethane (EDB)	ND		0.0040	1	07/11/2014 00:19
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	07/11/2014 00:19
Ethylbenzene	ND		0.0050	1	07/11/2014 00:19
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	07/11/2014 00:19
Naphthalene	ND		0.0050	1	07/11/2014 00:19
Toluene	ND		0.0050	1	07/11/2014 00:19
Xylenes, Total	ND		0.0050	1	07/11/2014 00:19
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	89		70-130		07/11/2014 00:19
Toluene-d8	99		70-130		07/11/2014 00:19

(Cont.)



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Analytical Report

Client: International Geologic
Project: Adeline
Date Received: 7/10/14 18:08
Date Prepared: 7/10/14

WorkOrder: 1407332
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

MTBE and BTEX by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Comp-1	1407332-003A	Soil	07/10/2014	GC28	92544
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.0050	1	07/11/2014 00:57
t-Butyl alcohol (TBA)	ND		0.050	1	07/11/2014 00:57
1,2-Dibromoethane (EDB)	ND		0.0040	1	07/11/2014 00:57
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	07/11/2014 00:57
Ethylbenzene	ND		0.0050	1	07/11/2014 00:57
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	07/11/2014 00:57
Naphthalene	ND		0.0050	1	07/11/2014 00:57
Toluene	ND		0.0050	1	07/11/2014 00:57
Xylenes, Total	ND		0.0050	1	07/11/2014 00:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	89		70-130		07/11/2014 00:57
Toluene-d8	100		70-130		07/11/2014 00:57



Analytical Report

Client: International Geologic
Project: Adeline
Date Received: 7/10/14 18:08
Date Prepared: 7/11/14

WorkOrder: 1407332
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

MTBE and BTEX by GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
GW-1	1407332-004A	Water	07/10/2014	GC28	92591
Analytes					
	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	97		5.0	10	07/11/2014 01:35
t-Butyl alcohol (TBA)	ND		20	10	07/11/2014 01:35
1,2-Dibromoethane (EDB)	ND		5.0	10	07/11/2014 01:35
1,2-Dichloroethane (1,2-DCA)	5.9		5.0	10	07/11/2014 01:35
Ethylbenzene	31		5.0	10	07/11/2014 01:35
Methyl-t-butyl ether (MTBE)	ND		5.0	10	07/11/2014 01:35
Naphthalene	50		5.0	10	07/11/2014 01:35
Toluene	280		5.0	10	07/11/2014 01:35
Xylenes, Total	220		5.0	10	07/11/2014 01:35
Surrogates					
	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	93		70-130		07/11/2014 01:35
Toluene-d8	89		70-130		07/11/2014 01:35



Quality Control Report

Client: International Geologic
Date Prepared: 7/9/14
Date Analyzed: 7/9/14 - 7/10/14
Instrument: GC10
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92544
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-92544
 1407281-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0403	0.0050	0.050	-	80.6	70-130
Benzene	ND	0.0448	0.0050	0.050	-	89.6	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.222	0.050	0.20	-	111	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0483	0.0050	0.050	-	96.6	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0432	0.0040	0.050	-	86.4	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0457	0.0040	0.050	-	91.3	70-130
1,1-Dichloroethene	ND	0.0433	0.0050	0.050	-	86.5	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: International Geologic
Date Prepared: 7/9/14
Date Analyzed: 7/9/14 - 7/10/14
Instrument: GC10
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92544
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-92544
1407281-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0411	0.0050	0.050	-	82.2	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0437	0.0050	0.050	-	87.4	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0439	0.0050	0.050	-	87.8	70-130
Methylene chloride	0.0101	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0503	0.0050	0.050	-	101	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0474	0.0050	0.050	-	94.9	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.118	0.170		0.18	94	97	70-130
Toluene-d8	0.127	0.173		0.18	102	99	70-130
4-BFB	0.0113	0.0184		0.018	90	105	70-130

(Cont.)



Quality Control Report

Client: International Geologic
Date Prepared: 7/9/14
Date Analyzed: 7/9/14 - 7/10/14
Instrument: GC10
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92544
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-92544
1407281-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0373	0.0358	0.050	ND	74.6	71.6	70-130	4.21	30
Benzene	0.0401	0.0391	0.050	ND	80.2	78.2	70-130	2.55	30
t-Butyl alcohol (TBA)	0.201	0.184	0.20	ND	100	92	70-130	8.62	30
Chlorobenzene	0.0430	0.0423	0.050	ND	86.1	84.7	70-130	1.63	30
1,2-Dibromoethane (EDB)	0.0387	0.0363	0.050	ND	77.5	72.7	70-130	6.41	30
1,2-Dichloroethane (1,2-DCA)	0.0422	0.0402	0.050	ND	84.3	80.5	70-130	4.67	30
1,1-Dichloroethene	0.0402	0.0386	0.050	ND	80.5	77.3	70-130	4.07	30
Diisopropyl ether (DIPE)	0.0374	0.0369	0.050	ND	74.8	73.9	70-130	1.18	30
Ethyl tert-butyl ether (ETBE)	0.0403	0.0389	0.050	ND	80.6	77.7	70-130	3.67	30
Methyl-t-butyl ether (MTBE)	0.0404	0.0388	0.050	ND	80.9	77.7	70-130	4.02	30
Toluene	0.0441	0.0431	0.050	ND	88.2	86.2	70-130	2.29	30
Trichloroethene	0.0478	0.0451	0.050	ND	95.7	90.1	70-130	5.93	30
Surrogate Recovery									
Dibromofluoromethane	0.168	0.165	0.18		96	94	70-130	1.84	30
Toluene-d8	0.164	0.166	0.18		94	95	70-130	0.954	30
4-BFB	0.0167	0.0164	0.018		96	93	70-130	2.23	30



Quality Control Report

Client: International Geologic
Date Prepared: 7/10/14
Date Analyzed: 7/10/14
Instrument: GC28
Matrix: Water
Project: Adeline

WorkOrder: 1407332
BatchID: 92591
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-92591

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.50	-	-	-	-
Benzene	ND	19.7	0.50	20	-	98.6	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	2.0	-	-	-	-
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	-	0.50	-	-	-	-
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	-	0.50	-	-	-	-
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	-	0.50	-	-	-	-
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: International Geologic
Date Prepared: 7/10/14
Date Analyzed: 7/10/14
Instrument: GC28
Matrix: Water
Project: Adeline

WorkOrder: 1407332
BatchID: 92591
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-92591

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	-	0.50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.50	-	-	-	-
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	17.5	0.50	20	-	87.4	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.2	0.50	20	-	101	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	-	0.50	-	-	-	-
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	23.0	42.1		45	92	94	70-130
Toluene-d8	22.9	41.4		45	92	92	70-130
4-BFB	2.15	-		2.5	86	-	-



Quality Control Report

Client: International Geologic
Date Prepared: 7/10/14
Date Analyzed: 7/10/14
Instrument: GC20
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92588
Extraction Method: SW3550B
Analytical Method: MAI-Organic Pb
Unit: mg/Kg
Sample ID: MB/LCS-92588
 1407325-002AMS/MSD

QC Summary Report for Organic Lead

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Tetraethyl Lead as Lead	ND	0.197	0.0060	0.20	-	98.4	30-150
Tetramethyl Lead as Lead	ND	0.194	0.010	0.20	-	97.2	20-140
Surrogate Recovery							
Decachlorobiphenyl	0.0644	0.0650		0.050	129	130	30-150

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Tetraethyl Lead as Lead	NR	NR	0	ND<0.012	NR	NR	-	NR	
Tetramethyl Lead as Lead	NR	NR	0	ND<0.02	NR	NR	-	NR	
Surrogate Recovery									
Decachlorobiphenyl	NR	NR	0		NR	NR	-	NR	



Quality Control Report

Client: International Geologic
Date Prepared: 7/9/14
Date Analyzed: 7/9/14 - 7/10/14
Instrument: GC10
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92544
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-92544
 1407281-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.0050	-	-	-	-
Benzene	ND	0.0448	0.0050	0.050	-	89.6	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	0.050	-	-	-	-
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	-	0.0050	-	-	-	-
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	-	0.0040	-	-	-	-
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	-	0.0040	-	-	-	-
1,1-Dichloroethene	ND	-	0.0050	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: International Geologic
Date Prepared: 7/9/14
Date Analyzed: 7/9/14 - 7/10/14
Instrument: GC10
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92544
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-92544
1407281-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	-	0.0050	-	-	-	-
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.0050	-	-	-	-
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0439	0.0050	0.050	-	87.8	70-130
Methylene chloride	0.0101	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0503	0.0050	0.050	-	101	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	-	0.0050	-	-	-	-
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.118	0.170		0.18	94	97	70-130
Toluene-d8	0.127	0.173		0.18	102	99	70-130
4-BFB	0.0113	-		0.0125	90	-	-

(Cont.)



Quality Control Report

Client: International Geologic
Date Prepared: 7/9/14
Date Analyzed: 7/9/14 - 7/10/14
Instrument: GC10
Matrix: Soil
Project: Adeline

WorkOrder: 1407332
BatchID: 92544
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-92544
1407281-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzene	0.0401	0.0391	0.050	ND	80.2	78.2	70-130	2.55	30
Methyl-t-butyl ether (MTBE)	0.0404	0.0388	0.050	ND	80.9	77.7	70-130	4.02	30
Toluene	0.0441	0.0431	0.050	ND	88.2	86.2	70-130	2.29	30
Surrogate Recovery									
Dibromofluoromethane	0.168	0.165	0.18		96	94	70-130	1.84	30
Toluene-d8	0.164	0.166	0.18		94	95	70-130	0.954	30



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1407332 ClientCode: IGO

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Steve Bittman
International Geologic
2831 Sylhowe Road
Oakland, CA 94602
(510) 644-3123 FAX: (510) 530-8794

Bill to:
Accounts Payable
International Geologic
2831 Sylhowe Road
Oakland, CA 94602

Requested TAT: 1 day

Date Received: 07/10/2014
Date Printed: 07/11/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1407332-001	T-N-8	Soil	7/10/2014	<input type="checkbox"/>	A		A											
1407332-002	T-S-8	Soil	7/10/2014	<input type="checkbox"/>	A		A											
1407332-003	Comp-1	Soil	7/10/2014	<input type="checkbox"/>	A		A											
1407332-004	GW-1	Water	7/10/2014	<input type="checkbox"/>		A												

Test Legend:

1	GAS8260_S	3	MAI_OPB_S	4		5	
6		8		9		10	
11				12			

The following SampleIDs: 001A, 002A, 003A, 004A contain testgroup.

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
 http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: INTERNATIONAL GEOLOGIC
Project: Adeline
Comments:

QC Level: LEVEL 2
Client Contact: Steve Bittman
Contact's Email: stevebittman@gmail.com

Work Order: 1407332
Date Received: 7/10/2014

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment	Hold	SubOut
1407332-001A	T-N-8	Soil	TPH(g) & MBTEX by 8260B Organic Lead (speciated)	1	Skinny Stainless Tube	<input type="checkbox"/>	7/10/2014	1 day	<input type="checkbox"/>		
1407332-002A	T-S-8	Soil	TPH(g) & MBTEX by 8260B Organic Lead (speciated)	1	Skinny Stainless Tube	<input type="checkbox"/>	7/10/2014	1 day	<input type="checkbox"/>		
1407332-003A	Comp-1	Soil	TPH(g) & MBTEX by 8260B Organic Lead (speciated)	1	Skinny Stainless Tube	<input type="checkbox"/>	7/10/2014	1 day	<input type="checkbox"/>		
1407332-004A	GW-1	Water	TPH(g) & MBTEX by 8260B	4	VOA w/ HCl	<input type="checkbox"/>	7/10/2014	1 day	<input type="checkbox"/>		Present

*** NOTE:** STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

Bottle Legend:
 Skinny Stainless Tube =
 VOA w/ HCl = 43mL VOA w/ HCl



McC Campbell Analytical Inc.
 1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

Report To: Steve Biltonen
 Company: International Geologic
 2831 Sycamore Rd
 Oakland, CA 94602
 E-Mail:
 Fax: ()
 Project Name: Adelme
 Purchase Order#
 Project Location: Oakland
 Sampler Signature: Steve Biltonen

Bill To: International Geologic
 2831 Sycamore Rd
 Oakland, CA 94602
 E-Mail:
 Fax: ()

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY 10 DAY
 GeoTracker EDF PDF EDD Write On (D/W) EQUIS
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Analysis Request

TPH as Diesel (8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/BSF)	
Total Petroleum Hydrocarbons (418.1)	
EPA 505/608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's: Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Achloric CI Herbicides)	
DTX/MTBE & TPH as Gas (8260)	
EPA 8242 / 624 / 8260 (VOCs)	
EPA 8252 / 625 / 8270 (SVOCs)	
EPA 8270 SIM / 8310 (PAHs / PNA's)	
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	
LUBT 5 Metals (200.7 / 200.8 / 6010 / 6020)	
Metals (200.7 / 200.8 / 6010 / 6020)	
Filter sample for DISSOLVED metals analysis	
M DTEX + NAPHTHENE + TOA, ETC	
EDB + THG by 8d60	
ORGANIC Pb	

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other		HCL	HNO3	Other			
T-N-8		7-10-14		1	X														
T-S-8		7-10-14		1	X														
COMP 1		7-10-14		1	X														
GW-1		7-10-14		1	X														

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <i>Steve Biltonen</i>	Date: 7-10-14	Time: 17:57	Received By: <i>Michelle S</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICBC: HED
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 COMMENTS: Please - need results by EOD 7-11-14
 PRESERVATION: YOAS O&G METALS OTHER HAZARDOUS: PH<2



Sample Receipt Checklist

Client Name: **International Geologic** Date and Time Received: **7/10/2014 6:08:10 PM**
 Project Name: **Adeline** Login Reviewed by: **Jena Alfaro**
 WorkOrder No: **1407332** Matrix: Soil/Water Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 4°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Comments:

APPENDIX D

UNAUTHORIZED RELEASE FORM

UNDERGROUND STORAGE TANK (UST) SITE - UNAUTHORIZED RELEASE / CONTAMINATION REPORT

EMERGENCY <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE. SIGNED _____ DATE _____	
REPORT DATE		CASE #			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Steve Bittman		PHONE (510) 612-8751	SIGNATURE 	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> REGIONAL BOARD <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME International Geologic		
	ADDRESS 2831 Sylhowe Road		Oakland	CA	94602
	<small>STREET</small>		<small>CITY</small>	<small>STATE</small>	<small>ZIP</small>
RESPONSIBLE PARTY	NAME Hung Revocable Trust		<input type="checkbox"/> Unknown	CONTACT PERSON Robert Hung	PHONE (510) 548-5960
	ADDRESS PO Box 616		Berkeley	CA	94701
	<small>STREET</small>		<small>CITY</small>	<small>STATE</small>	<small>ZIP</small>
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Warehouse		OPERATOR Vacant		PHONE ()
	ADDRESS 2823 Adeline Street		Oakland	Alameda	94608
	<small>STREET</small>		<small>CITY</small>	<small>COUNTY</small>	<small>ZIP</small>
	CROSS STREET 28th				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Oakland Fire Department			PHONE (510) 283-7853	
	REGIONAL BOARD San Francisco Bay Region			PHONE (510) 622-2300	
SUBSTANCES INVOLVED	(1)	NAME Gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> Unknown	
	(2)			<input type="checkbox"/> Unknown	
DISCOVERY/ABATEMENT	DATE DISCOVERED 7/10/2014	HOW DISCOVERED <input type="checkbox"/> Tank Test <input checked="" type="checkbox"/> Tank Removal <input type="checkbox"/> Nuisance Conditions <input type="checkbox"/> Inventory Control <input type="checkbox"/> Subsurface Monitoring <input type="checkbox"/> Other			
	DATE DISCHARGE BEGAN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> Remove Contents <input checked="" type="checkbox"/> Close Tank <input type="checkbox"/> Repair Tank <input type="checkbox"/> Change Procedure <input type="checkbox"/> Replace Tank <input type="checkbox"/> Other <input type="checkbox"/> Repair Piping			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No IF YES, DATE 7/15/2014	<input checked="" type="checkbox"/> Unknown			
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Delivery Problem <input type="checkbox"/> Submersible Turbine Pump (STP) <input type="checkbox"/> Other		CAUSE(S) <input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Physical/Mechanical Damage <input type="checkbox"/> Corrosion <input type="checkbox"/> Installation Problem <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Other		
	CHECK ONE ONLY <input checked="" type="checkbox"/> Undetermined <input type="checkbox"/> Soil Only <input type="checkbox"/> Groundwater <input type="checkbox"/> Drinking Water - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> Open - Site Assessment <input type="checkbox"/> Open - Verification Monitoring <input type="checkbox"/> Open - Assessment & Interim Remedial Action <input type="checkbox"/> Open - Inactive <input type="checkbox"/> Open - Remediation <input type="checkbox"/> Closed - No Further Action Required				
	CHECK APPROPRIATE ACTION(S) Human health exposure control? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown Groundwater migration control? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> No Action Required (NAR) <input type="checkbox"/> Excavate & Treat (ET) <input type="checkbox"/> Treatment at Hookup (TH) <input type="checkbox"/> Other <input type="checkbox"/> Excavate & Dispose (ED) <input type="checkbox"/> Free Product Removal (FPR) <input type="checkbox"/> Replace Supply (RS)				
COMMENTS	1K 5al gasoline UST closed 7/15/14. Soil samples collected did not contain detectable hydrocarbons. Groundwater collected in UST excavation contained TVHg and benzene above ESLs. Soil and groundwater tests downgradient showed no impact.				

Instructions for Completing UST Unauthorized Release (Leak) / Contamination Site Report

EMERGENCY: Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES). Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY USE ONLY: To avoid duplicate notifications pursuant to Health and safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY: Enter name, telephone number, and address. Indicate which party you represent and provide company or agency name.

SIGNATURE: Sign the form in the space provided.

RESPONSIBLE PARTY: Enter the name, telephone number, contact person, and address of the party responsible for the leak. The Responsible Party would normally be the tank owner.

SITE LOCATION: Enter information regarding the tank facility. At a minimum, you must provide the facility name and full site address.

IMPLEMENTING AGENCIES: Enter the names of the local agency and Regional Water Quality Control Board having jurisdiction over the site.

SUBSTANCES INVOLVED: Enter the name and quantity lost of the hazardous substance(s) involved. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT: Provide information regarding the discovery and abatement of the leak.

SOURCE: Indicate the source(s) of the leak. Check source(s) that apply.

CAUSE: Check box(es) that apply. Only use "other" when the release source is known, but does not fit into any of the other categories. For example releases from vent and vapor recovery lines.

CASE TYPE: Check one box only. Indicate the Case Type category for this leak. Case Type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, Case Type will be "Groundwater." Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Groundwater" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that Case Type may change upon further investigation.

CURRENT STATUS: Check one box only. Indicate the category which best describes the Current Status of the case. The response should be relative to the Case Type. For example, if the Case Type is "Groundwater," then Current Status should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options are as follows:

- **Open- Site Assessment** – An investigation to determine whether groundwater and/or soil have/has been, or will be, impacted as a result of the release.
- **Open- Assessment & Interim Remedial Action** – An investigation to determine whether groundwater and/or soil have/has been, or will be, impacted as a result of the release and appropriate actions to prevent or address an immediate threat to human health or the environment.
- **Open- Remediation** – Remedial activities to prevent or address a threat to human health or the environment as a result of the release.
- **Open- Verification Monitoring** – Periodic groundwater or other monitoring at the site to verify and/or evaluate the effectiveness of remedial activities.
- **Open- Inactive** – No activities have been implemented to determine whether groundwater and/or soil were/was impacted by the release.
- **Closed- No Further Action Required** – Regional Water Quality Control Board and local agency Local Oversight Program agree that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY.

REMEDIAL ACTION: Indicate which actions have been used to clean up or remediate the leak. Descriptions of options are as follows:

- **Human health exposure control? Yes** – Assessments for human exposures indicate there are no unacceptable human exposure pathways and the Regional Water Quality Control Board or other regulatory agency staff has determined the site is under control for current conditions.
- **Human health exposure control? No** – Data indicate that there are complete human exposure pathways that present unacceptable exposures to humans, and actions have yet to be completed to address these human exposure pathways for the entire site.
- **Human health exposure control? Unknown** – There is not sufficient information to determine whether there are any current, complete unacceptable human exposure pathways at the site.
- **Groundwater migration control? Yes** – All information on known and reasonably expected groundwater contamination has been reviewed and that the migration of contaminated groundwater is stabilized and there is no unacceptable discharge to surface water and monitoring will be conducted to confirm that affected groundwater remains in the original area of contamination.
- **Groundwater migration control? No** – All information on known and reasonably expected groundwater contamination has been reviewed and that the migration of contaminated groundwater is not stabilized.
- **Groundwater migration control? Unknown** – There is not sufficient information to determine whether the migration of contaminated groundwater is stabilized.
- **No Action Required (NAR)** – Incident is minor, requiring no remedial action.
- **Excavate and Dispose (ED)** – Remove contaminated soil and dispose at approved facility.
- **Excavate and Treat (ET)** – Remove contaminated soil and treat (includes spreading or land farming).
- **Free Product Removal (FPR)** – Remove floating product from water table.
- **Treatment at Hookup (TH)** – Install water treatment devices at each dwelling or other place of use.
- **Replace Supply (RS)** – Provide alternate water supply to affected parties.
- **Other** – Other remedial actions that are not listed above.

COMMENTS: Use this space to elaborate on any aspects of the incident.

DISTRIBUTION: If this form is completed by the tank owner or his/her agent, retain a copy and forward the original to your local tank permitting agency for distribution.

- Original – Local UST permitting agency. (Agency contact information is available at <http://www.calcupa.net/services/directory/search.asp>.)
- Copy – Regional Water Quality Control Board. (Boundaries and contact information are available at http://www.waterboards.ca.gov/waterboards_map.shtml.)
- Copy – Local Oversight Program (LOP) agency. (Agency contact information is available at http://www.waterboards.ca.gov/water_issues/programs/ust/contacts/lop.shtml.)
- Copy – Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
- Copy – Owner/Responsible Party.



ECO-CHEK Compliance, Inc.

CSLB# 958763 A

P.O. Box 77194, San Francisco , CA 94107

P: 888-500-CHEK F: 415-399-9602 E: contact@eco-chek.com

www.eco-chek.com

Fax

To:	Oakland Fire Department	From:	Nik Zagorov
E-mail:	cavila@oaklandnet.com	Pages:	1
Phone:	(510) 238-2396	Date:	09/04/2014
Re:	Annual Monitoring Certification	CC:	

Urgent For Review Please Comment Please Reply Please Recycle

Inspector Cesar Avila,

Please accept this fax as the 48 hour minimum notification for performing:

Test **Annual Monitoring Certification
Spill Bucket Test**

Location **Children Hospital
747 52ND Street
Oakland, CA 94609**

Test Date **Wednesday, September 10TH 2014**

Test Time **11:30 AM**

Sincerely,

Nik Zagorov
nzagorov@eco-chek.com
415-740-8590 – cell