ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

September 3, 2014

Priscilla F. Shenk
Priscilla F. Shenk Trust
575 Broadmoor Blvd.
San Leandro, CA 94577
(sent via E-mail to: shenk@pacball.net)

Karen Plessinger and Nicholas Moore
6159 Acacia Avenue
Oakland, CA 94618
(sent via E-mail to: karen.plessinger@gmail.com)

Subject: Case Closure Fuel Leak Case No. RO0000152 and GeoTracker Global ID T0600101570, Earle Shenk Residence, 6159 Acacia Avenue, Oakland, CA 94618

Dear Responsible Parties:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.waterboards.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

If you have any questions, please call Matthew Soby at (510) 567-6725. Thank you.

Sincerely,

Dilan Roe, P.E.
LOP and SCP Program Manager

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

Cc w/enc.:

Cheri McCaulou, San Francisco Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612 (sent via electronic mail to cmccaulou@waterboards.ca.gov)

Leroy Griffin, Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (sent via electronic mail to *lgriffin@oaklandnet.com*)

Barbara Grayson, 6159 Acacia Avenue, Oakland, CA 94618

Case Worker (sent via electronic mail to *matthew.soby@acgov.org*)

e-File, GeoTracker

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

September 3, 2014

Priscilla F. Shenk
Priscilla F. Shenk Trust
575 Broadmoor Blvd.
San Leandro, CA 94577
(sent via E-mail to: shenk@pacball.net)

Karen Plessinger and Nicholas Moore
6159 Acacia Avenue
Oakland, CA 94618
(sent via E-mail to: karen.plessinger@gmail.com)

Subject: Case Closure Fuel Leak Case No. RO0000152 and GeoTracker Global ID T0600101570, Earle Shenk Residence, 6159 Acacia Avenue, Oakland, CA 94618

Dear Responsible Parties:

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

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

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

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

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

Sincerely,

Ariu Levi
Director

UST Case Closure Summary Form

Agency Information Date: September 3, 2014

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6767
Responsible Staff Person: Matthew Soby	Title: Hazardous Materials Technician

Case Information

Facility Name: Earle Shenk Residence		
Facility Address: 6159 Acacia Avenue, Oakland, CA 94618		
RB LUSTIS Case No: 01-1699	Local Case No.: 4158	LOP Case No.: RO0000152
URF Filing Date: ----	Sweeps No.: ----	
GeoTracker Global ID: T0600101570	APN: 48A-7120-43	
Current Land Use: Residential		
Responsible Party(s):	Address:	Phone:
Priscilla F. Shenk Trust c/o Earle Shenk	575 Broadmoor Blvd. San Leandro, CA 94577	(510) 220-6407
Karen Plessinger and Nicholas Moore	6159 Acacia Avenue Oakland, CA 94618	----

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
----	500	Home Heating Oil (diesel)	Removed	4/14/1992

LTCP Groundwater Specific Criteria (Attachment 1)

LTCP Vapor Specific Criteria (Attachment 2)

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 3)

Conceptual Site Model (GeoTracker CSM print-out Attachment 4)

Closure Criteria Met (GeoTracker LTCP print-out Attachment 5)

Site Maps and Soil Bore Log:

Attachment 6 Aerial Photo (1 pp)

Attachment 7 Site Vicinity and Location Map (1 pp)

Attachment 8 Site Plan and Sample Location Map (1 pp)

Attachment 9 Soil Boring Log (1 pp)

Analytical Data

Attachment 10 Soil and Groundwater Analytical Data (1 pp)

UST Case Closure Summary Form

Additional Information:

Water Supply Wells in Vicinity:

- One irrigation well (01S04W11K001M) was identified 1.81 miles to the northwest of the site.
- Per Alameda County Public Works, two domestic wells were identified: 2,700 feet southeast of the site, and 3,100 feet northwest of the site.
- These three wells do not appear to be receptors due to their location and distance from the site. The CSM suggests encountered groundwater is perched and likely flows southwest mirroring the site topography. The wells are unlikely to receive potentially impacted groundwater due to lateral distance and hydrogeologic separation from the underlying aquifer.

Site Management Requirements:

Based on this evaluation, no site management requirements appear to be necessary. However, excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

RWQCB Notification Notification Date: November 27, 2013

RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist

Local Agency Representative

Prepared by: Matthew Soby	Title: Hazardous Materials Technician
Signature: [signature]	Date: 9/3/2014
Approved by: Dilan Roe	Title: LOP and SCP Program Manager
Signature: Dilan Roe	Date: 9/3/2014

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board GeoTracker website (http://geotracker.waterboards.ca.gov). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

ATTACHMENT 1

Attachment 1

LTCP GROUNDWATER SPECIFIC CRITERIA						
LTCP Groundwater Specific Scenario under which case was closed: Scenario 5						
Site Data			LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria
Plume Length	< 1,000 feet		<100 feet	<250 feet	<250 feet	<1,000 feet
Free Product	No free product		No free product	No free product	Removed to maximum extent practicable	No free product
Plume Stable or Decreasing	Decreasing		Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	2,700 feet southeast (cross-gradient)		>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	1,000 feet south: Rockridge Branch of Glen Echo Creek		>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	No		Not applicable	Not applicable	Yes	Not applicable
GROUNDWATER CONCENTRATIONS						
Constituent	Historic Site Maximum (ug/L)	Current Site Maximum (ug/L)	LTCP Scenario 1 Criteria (ug/L)	LTCP Scenario 2 Criteria (ug/L)	LTCP Scenario 3 Criteria (ug/L)	LTCP Scenario 4 Criteria (ug/L)
Benzene	0.43	0.43	No criteria	3,000	No criteria	1,000
MTBE	----	----	No criteria	1,000	No criteria	1,000
Naphthalene (exceeds RWQCB December 2013 ESL (6.1 ug/L))	33	33				
Scenario 5: If the site does not meet scenarios 1 through 4, has a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?			• Encountered groundwater appears to be perched above a confining cemented sandstone bedrock unit at 11.5 feet below ground surface (bgs). Depth to aquifer is approximately 150 feet bgs based on adjacent site data. • Free product is not indicated as TPH-D concentration (2,400 mg/kg) is one order of magnitude below residual soil saturation for clay soil. • MTBE was not tested as the primary source was home heating oil, not gasoline. • Maximum plume length estimated to be 855 feet reported for TPH-G in Technical Justification for Groundwater Media-Specific Criteria. Release			

	occurred 22 years ago and consisted of diesel in clay soil matrix. Therefore, due to lower mobility of diesel and natural degradation, the contaminant plume is considered to be low risk to surface water bodies in the site vicinity. • Distance to nearest water supply well is 2,700 feet. Distance to water supply well exceeds exposure risk criteria.

ATTACHMENT 2

Attachment 2

LTCP VAPOR SPECIFIC CRITERIA							
LTCP Vapor Specific Scenario under which case was closed: Scenario 3A							
Active Fueling Station	Active as of: Not applicable						
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered NAPL	No NAPL	LNAPL in groundwater	LNAPL in soil	No NAPL	No NAPL	No NAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	Approximately 5 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Bioattenuation Zone	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	0.43 μg/L	No criteria	No criteria	<100 ug/L	≥100 and <1,000 ug/L	<1,000 ug/L	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	----	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet

SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS						
Site Soil Vapor Data			No Bioattenuation Zone		Bioattenuation Zone	
Constituent	Historic Maximum ($\mu g/m^3$)	Current Maximum ($\mu g/m^3$)	Residential	Commercial	Residential	Commercial
Benzene	----	----	<85	<280	<85,000	<280,000
Ethylbenzene	----	----	<1,100	<3,600	<1,100,000	<3,600,000
Naphthalene	----	----	<93	<310	<93,000	<310,000
If the site does not meet scenarios 1 through 4, does a site-specific risk assessment for the vapor intrusion pathway demonstrate that human health is protected?					----	
If the site does not meet scenarios 1 through 4, has a determination been made that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health?					----	

Comments:
Bio-attenuation zone thickness determined from vertical delineation of soil bore where concentrations are below 100 mg/kg to 5.0 feet bgs: <10 mg/kg (4.5 to 5.0 feet bgs); 2,400 mg/kg (8.0 to 8.5 feet bgs); 890 mg/kg (9.5 to 10.0 feet bgs); 66 mg/kg (11.5 to 12.0 feet bgs).

The removed UST was reportedly in poor condition, with several holes in the bottom of the tank. Following removal, soil samples were collected from the tank excavation, and sample results indicated that total petroleum hydrocarbons (TPH) as diesel-range organics (DRO) were present at concentrations of 7,900 parts per million (ppm) at 3.5 feet bgs. Additional soil

was excavated to 5 feet bgs, and soil samples were again collected at the bottom of the excavation. Results for the 5-foot samples indicated that TPH-DRO was present at a concentration of 1,400 ppm.

BTEX and naphthalene were not detected above lab reporting limits in soil samples. Low concentrations of benzene detected in groundwater. Therefore, site is considered low risk for vapor intrusion to indoor air.

ATTACHMENT 3

Attachment 3

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA						
LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below.						
Are maximum concentrations less than those in Table 1 below?		Yes				
Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 10 feet bgs (ppm)
Site Maximum	Benzene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	Not analyzed	Not analyzed	Not analyzed	Not analyzed	Not analyzed
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
If maximum concentrations are greater than those in Table 1, are they less than levels from a site-specific risk assessment?		----				
If maximum concentrations are greater than those in Table 1, has a determination been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls?		----				

Site Management Requirements:

NO RESTRICTIONS

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation, no site management requirements appear to be necessary. However, excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

ATTACHMENT 4

EARLE SHENK RESIDENCE (T0600101570) - MAP THIS SITE

OPEN - ELIGIBLE FOR CLOSURE

6159 ACACIA AVE.
OAKLAND , CA 94618
ALAMEDA COUNTY

ACTIVITIES REPORT
PUBLIC WEBPAGE

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0000152*
CASEWORKER: *MATTHEW SOBY* - ***SUPERVISOR:*** *DILAN ROE*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: 01-1699*
CASEWORKER: *Cherie McCaulou* - ***SUPERVISOR:*** *Cheryl L. Prowell*

THIS PROJECT WAS LAST MODIFIED BY ***MATTHEW SOBY*** ON 9/2/2014 4:46:23 PM - HISTORY

THIS SITE HAS SUBMITTALS. CLICK HERE TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

CSM REPORT - VIEW PUBLIC NOTICING VERSION OF THIS REPORT

UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIIS)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	FIVE YEAR REVIEW INFORMATION: REVIEW NUM	REVIEWER	FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - MAP THIS SITE

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
EARLE SHENK RESIDENCE (Global ID: T0600101570) 6159 ACACIA AVE. OAKLAND, CA 94618	Open - Eligible for Closure	8/16/2013	4/14/1992	22	ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0000152* ***CASEWORKER:*** *MATTHEW SOBY* - ***SUPERVISOR:*** *DILAN ROE* SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: 01-1699* ***CASEWORKER:*** *Cherie McCaulou* - ***SUPERVISOR:*** *Cheryl L. Prowell*

STAFF NOTES (INTERNAL)
<NO STAFF NOTES ENTERED>

SITE HISTORY
A 500-gallon home heating oil UST removed from the site on April 4, 1992. Holes observed in bottom of tank. Initial sampling detected 7,900 ppm TPHd at 3 to 3.5 feet bgs. Overexcavation occurred to 5 feet bgs and TPHd was reported at 1,400 ppm. No additional sampling was performed. A new house was built on the lot and the home was sold to a new owner after rebuilding.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
EARLE SHENK	NA	674 VICTORIA COURT	SAN LEANDRO	
KAREN J PLESSINGER	NA	6159 ACACIA AVE	OAKLAND	
NICHOLAS E MOORE	NA	6159 ACACIA AVE	OAKLAND	
PRISCILLA F SHENK	PRISCILLA F SHENK TRUST	575 BROADMOOR BLVD	SAN LEANDRO	

CLEANUP ACTION INFO
NO CLEANUP ACTIONS HAVE BEEN REPORTED

RISK INFORMATION VIEW LTCP CHECKLIST VIEW PATH TO CLOSURE PLAN VIEW CASE REVIEWS

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
Diesel	Residential	GW - Municipal and Domestic Supply		4/14/1992	Close and Remove Tank	0

FREE PRODUCT	OTHER CONTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	EBMUD	6/26/2014	6/4/2013			

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN
048A712004300

GW BASIN NAME

WATERSHED NAME
Bay Bridges - Berkeley (20330)

COUNTY
Alameda

PUBLIC WATER SYSTEM(S)
- **EAST BAY MUD** - 375 ELEVENTH STREET, OAKLAND, CA 94607

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - HIDE	VIEW ESI SUBMITTALS
NO GROUNDWATER DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE	

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - HIDE	VIEW ESI SUBMITTALS
NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE	

MOST RECENT GEO_WELL DATA - HIDE	VIEW ESI SUBMITTALS
NO GEO_WELL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE	

LOGGED IN AS MATTSOBY CONTACT GEOTRACKER HELP

ATTACHMENT 5

LTCP Checklist Go

EARLE SHENK RESIDENCE (T0600101570) - MAP THIS SITE

OPEN - ELIGIBLE FOR CLOSURE

6159 ACACIA AVE.
OAKLAND , CA 94618
ALAMEDA COUNTY

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

ACTIVITIES REPORT

PUBLIC WEBPAGE

CLEANUP OVERSIGHT AGENCIES
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CASEWORKER: *Cherie McCaulou* - ***SUPERVISOR:*** *Cheryl L. Prowell*

THIS PROJECT WAS LAST MODIFIED BY ***MATTHEW SOBY*** ON 9/2/2014 4:50:10 PM - HISTORY

THIS SITE HAS SUBMITTALS. CLICK HERE TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 9/2/2014 *CHECKLIST INITIATED ON 2/15/2013* CLOSURE POLICY HISTORY

General Criteria - *The site satisfies the policy general criteria* - CLEAR SECTION ANSWERS — **YES**

a. Is the unauthorized release located within the service area of a public water system? — ◉ YES ○ NO
Name of Water System : EBMUD

b. The unauthorized release consists only of petroleum (info). — ◉ YES ○ NO

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

d. Free product has been removed to the maximum extent practicable (info). — ◉ FP Not Encountered ○ YES ○ NO

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

f. Secondary source has been removed to the extent practicable (info). — ◉ YES ○ NO

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

h. Does a nuisance exist, as defined by Water Code section 13050. — ○ YES ◉ NO

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

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) — ○ **YES** ◉ **NO**

Does the site meet any of the Groundwater specific criteria scenarios? — ◉ **YES** ○ **NO**

1.1 - The contaminant plume that exceeds water quality objectives is <100 feet in length. There is no free product. The nearest existing water supply well or surface water body is >250 feet from the defined plume boundary. — ◉ YES ○ NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c* - CLEAR SECTION ANSWERS — **YES**

EXEMPTION - Active Commercial Petroleum Fueling Facility — ○ **YES** ◉ **NO**

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

2a - Scenario 3 (example): Dissolved Phase Benzene Concentrations Only in Groundwater (Low concentration groundwater scenarios with or without O2 measurements must satisfy one i, ii, or iii): — **YES**

i. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are <100 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing or potential building; and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone. — ◉ YES ○ NO

ii. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are >100 µg/L but <1,000 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 10 feet vertically between the dissolved phase benzene and the foundation of existing or potential building, and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone. — ○ YES ○ NO

iii. For bioattenuation zone with oxygen ≥ 4% and benzene concentration are <1,000 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing or potential building, and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone. — ○ YES ○ NO

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

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

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

3.1 - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table (LINK) for the specified depth below ground surface. — ◉ YES ○ NO

Additional Information

This case should be kept OPEN in spite of meeting policy criteria. — ○ YES ◉ NO

Has this LTCP Checklist been updated for FY 14/15? — ○ YES ◉ NO

SPELL CHECK

Save Form as Partially Completed | Save Form as Complete

LOGGED IN AS MATTSOBY

CONTACT GEOTRACKER HELP

ATTACHMENT 6

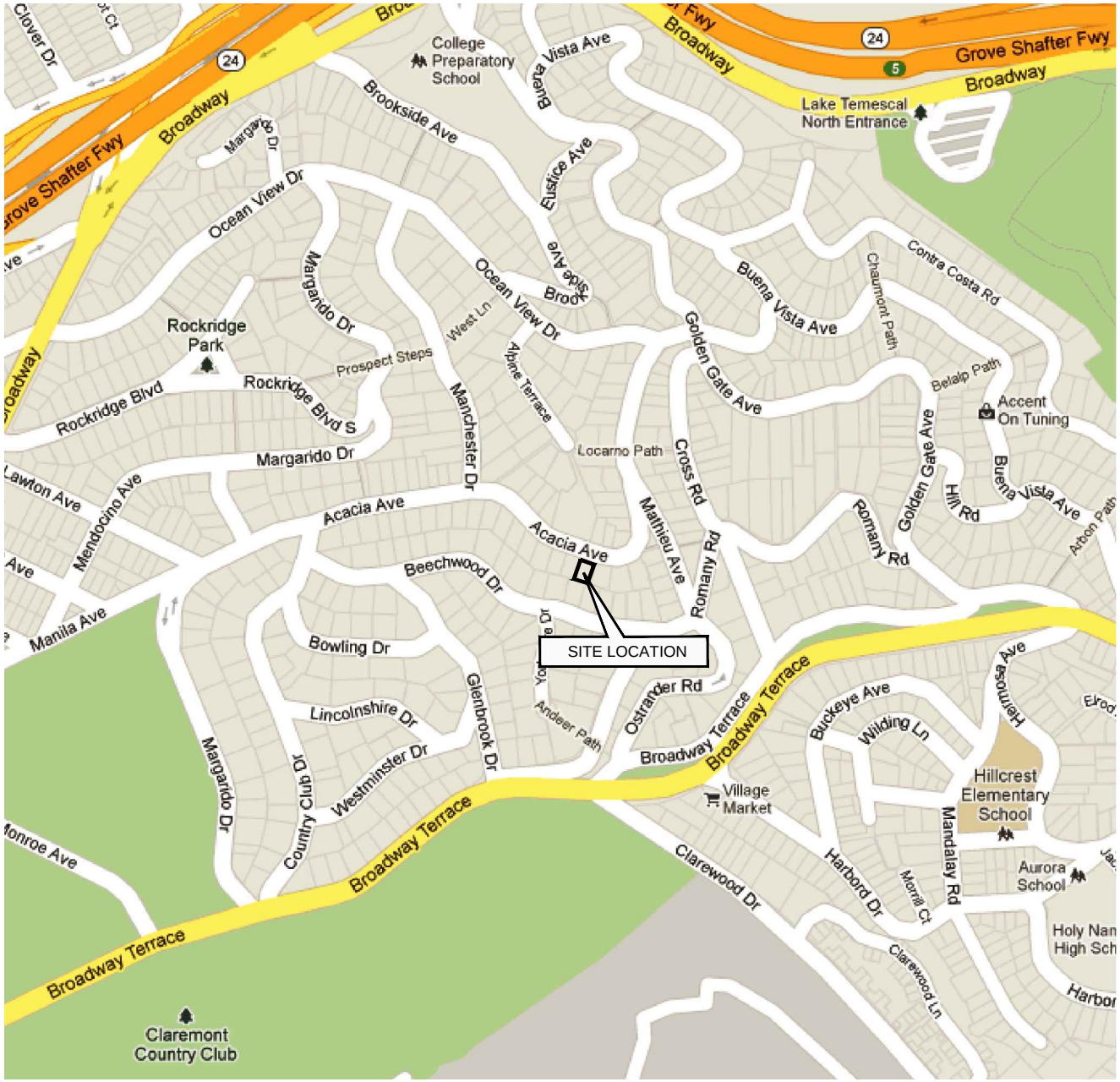
RO0000152, Earle Shenk Residence, 6159 Acacia Ave, Oakland, CA 94518

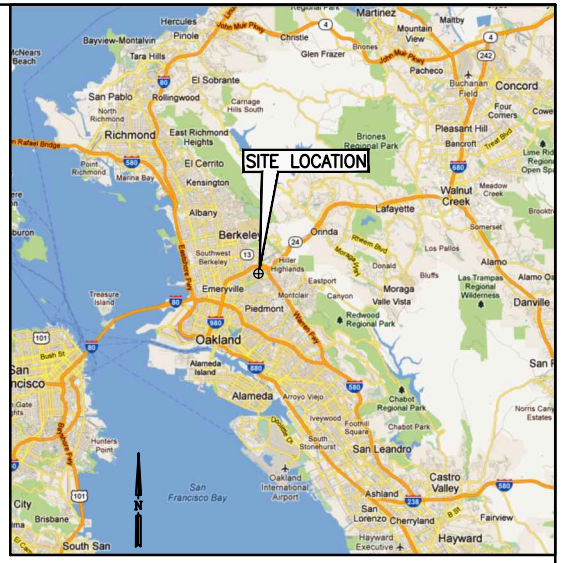
Google earth

feet 500

meters 100

ATTACHMENT 7





VICINITY MAP
NOT TO SCALE

SOURCE: GOOGLE MAPS

N

0' 100'

APPROXIMATE SCALE: 1"=100'

FILE NAME: N:\graphics\2012\2012-002\N. Maps&Dwg\Fig1_map.dwg LAYOUT NAME: 1 PLOTTED: Friday, January 13, 2012 - 7:23am

ERRG Engineering/Remediation Resources Group, Inc. 115 Sansome St., Suite 200 San Francisco, California 94104 (415) 395-9974	CLIENT: EARLE SHANK	SITE VICINITY AND LOCATION MAP		
	LOCATION: 6159 ACACIA AVE. OAKLAND, CALIFORNIA	DRAWN BY: SC 01/09/12	CHECKED BY: TA 01/09/12	PROJECT NO. 2012-002	FIG NO. 1

ATTACHMENT 8

SOURCES: USGS HIGH-RESOLUTION ORTHOIMAGE, USNG 10SEG655880 AND 10SEG670880
COORDINATE SYSTEM: NAD 1983 CALIFORNIA STATE PLANE, ZONE 3
PROJECTION: LAMBERT CONFORMAL CONIC

N

0 24

SCALE: 1" = 24 FEET

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ERRG
Engineering/Remediation Resources Group, Inc.
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San Francisco, California 94104
(415) 395-9974

CLIENT:	FORMER UNDERGROUND STORAGE TANK AND APPROXIMATE SAMPLING LOCATION MAP			
EARLE SHANK				
LOCATION:	DRAWN BY:	CHECKED BY:	PROJECT NO.	FIG NO.
6159 ACACIA AVE. OAKLAND, CALIFORNIA	JJC 9/27/2012	TA 9/27/2012	2012-002	2

ATTACHMENT 9

Project: Investigation at 6159 Acacia Ave | Boring: **SB-1** | Pg. 1 of 1

Drilling Co: **Cascade** | Drilling Method: **4-inch Hand and Auger** | Date Started: **4/16/13**

Location: **Backyard** | Sampler: **P. Bratton** | Date Completed: **4/16/13**

Logged by: **P. Bratton** | Reviewed by: **T. Angus**

Water Level (feet bgs): ▼ At Completion **4**

DEPTH - FT.	BLOW COUNT	% RECOVERY	FID\PID (ppm)	SAMPLES	GRAPHIC LOG	DESCRIPTION	USCS SYMBOL	ESTIMATED % OF GR	SA	FI	MOISTURE
			0.0			GRASS	TOPSOIL				
1						CLAY (CL); brown; dry; high plasticity; stiff; 10% small gravel; possible organics present		10		90	D
2						2 to 3 inch rock; green; sub-rounded; possibly Greenstone					
3						slightly reddish-brown; moist		10		90	M
4 ▼			0.0			wet; collected sample 6159-SS-01					W
5						brown; dry					
6						less gravel	CL				
7			5.5			brown/green; slight odor					
						less gravel					
8						wood debris					
			19.7			wet; odor; collected sample 6159-SS-02 (10 inches)					W
9						collected groundwater sample 6159-GW-01					
10			9.8			tight; no gravel; collected sample 6159-SS-03					
11						dry; tight; 5% small rounded gravel		5		95	D
						refusal at 11.5'; fractured bedrock in auger					
						Bottom of boring at 11.5 feet bgs					

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Lithologic Log for SB-1
Earle Shenk

Project Location: **6159 Acacia Ave**

Project No. **1**

2012-002 ACACIA.GPJ 8/9/13

ATTACHMENT 10

Soil and Grounwater Sampling Results - 6159 Acacia

Sample ID No.	Sample Depth (feet bgs)	Matrix	Unit	TPH-DRO	Benzene	Toluene	Xylenes	Napthalene	TPH-MRO	Ethyl Benzene
Previous Sample	3.0-3.5	Soil	mg/kg	7,900	NA	NA	NA	NA	NA	NA
Previous Sample	8.0-8.5	Soil	mg/kg	1,400	NA	NA	NA	NA	NA	NA
6159-SS-01	4.5-5.0	Soil	mg/kg	ND	ND	ND	ND	ND	ND < 2.1	ND < 2.1
6159-SS-02	8.0-8.5	Soil	mg/kg	**2,400**	ND	ND	ND	0.053	ND < 2.1	ND < 2.1
6159-SS-03	9.5-10.0	Soil	mg/kg	**890**	ND	ND	ND	0.025	ND < 2.1	ND < 2.1
6159-SS-04	11.5-12.0	Soil	mg/kg	66	ND	ND	ND	ND	ND < 2.1	ND < 2.1
6159-GW-01	9.0-10.5	Water	µg/L	ND	0.43	0.1	0.12	**33**	ND < 2.1	ND < 2.1
San Francisco Bay Area		Soil	mg/kg	83	0.04	2.9	2.3	1.2		
Tier 1 ESLs*		Water	µg/L	100	1	40	20	6.2		

Notes:
Previous sampling results from documentaiton suplimenting an ACEH letter dated May 18, 1992; no laboratory report available
*San Francisco Bay Regional Water Quality Control Board Tier 1 ESLs, 2013
BOLD sample results exceed ESLs
bgs = below ground surface
ESL = environmental screening level
NA = not available
ND = not detected above the method reporting limit
TPH-DRO = total petroleum hydrocarbons as diesel-range organics
TPH-MRO = total petroleum hydrocarbons as motor oil-range organics
mg/kg = milligram per kilogram
µg/L = microgram per liter