ALAMEDA COUNTY HEALTH CARE SERVICES

ALEX BRISCOE, Director



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

December 22, 2014

Kenneth Beeson and Gloria Zarifa Kenneth Beeson and Gloria Zarifa Trust 5700 McFarland Road, Sebastopol, CA 95472 Sent via E-mail to: <u>kbeesen@yahoo.com</u> Piyanartr Sakarindr c/o: D. Ames Estate of Prasitte Sakarindr 2691 March Avenue, Chicago, IL 60611

Subject: Case Closure for Fuel Leak Case No. RO0003045 (Global ID T0600101219), Shattuck Imports, 6562 Shattuck Ave., Oakland, CA 94609

Ladies and Gentlemen:

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).

Site management requirements do not 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.

If a change in land use to any residential, commercial other than as a former fueling station, or conservative land use, or if any redevelopment occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2.

This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

If you have any questions, please call Karel Detterman at (510) 567-6708. Thank you.

Sincerely,

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

1.

2.

Enclosures:

Remedial Action Completion Certification Case Closure Summary

cc with enclosures:

Ann Clevenger, Planner III, City of Oakland Planning and Building Department, 250 Frank H. Ogawa Plaza, Suite 2114, Oakland, CA 94612 (sent via e-mail to: <u>aclevenger@oaklandnet.com</u>)

Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3354, Oakland, CA 94612 (sent via e-mail to <u>lgriffin@oaklandnet.com</u>)

Dilan Roe, ACEH, (sent via e-mail to: <u>dilan.roe@acgov.org</u>) Karel Detterman, ACEH, (sent via electronic mail to <u>karel.detterman@acgov.org</u>) e-File, GeoTracker

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY ALEX BRISCOE, Agency Director



REMEDIAL ACTION COMPLETION CERTIFICATION

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

December 22, 2014

Kenneth Beeson and Gloria Zarifa Kenneth Beeson and Gloria Zarifa Trust 5700 McFarland Road, Sebastopol, CA 95472 Sent via E-mail to: <u>kbeesen@yahoo.com</u> Piyanartr Sakarindr c/o: D Ames Estate of Prasitte Sakarindr 2691 March Avenue, Chicago, IL 60611

Subject: Case Closure for Fuel Leak Case No. RO0003045 (Global ID T0600101219), Shattuck Imports, 6562 Shattuck Ave., Oakland, CA 94609

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: December 22, 2014
Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: 510-567-6708
Staff Person: Karel Detterman, P.G.	Title: Hazardous Materials Specialist

Case Information

Facility Name: Shattuck Imports						
Facility Address: 6562 Shattuck Ave, Oakland, CA 94609						
RB LUSTIS Case No:01-1324	Local Case No.:	LOP Case No.: RO0003045				
URF Filing Date:	GeoTracker Global ID: T0600101219					
APN: 16-1425-19	Current Land Use: Commercial					
Responsible Party(s):	Address:	Phone:				
Kenneth Beeson and Gloria Zarifa Kenneth Beeson and Gloria Zarifa Trust	5700 McFarland Road, Sebastopol, CA 95472					
Piyanartr Sakarindr c/o: D Ames Estate of Prasitte Sakarindr	2691 March Avenue, Chicago, IL 60611					

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
1	1,000	Gasoline	Removed	May 22, 1985
2	550	Gasoline	Removed	May 22, 1985

Conceptual Site Model (Attachment 1, 1 pages) (GeoTracker CSM Report)

Closure Criteria Met (Attachment 2, 2 pages) (GeoTracker LTCP Checklist)

LTCP Groundwater Specific Criteria (Attachment 3, 2 pages)

LTCP Vapor Specific Criteria (Attachment 4, 1 page)

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 1 page)

Site maps (Attachment 6, 4 pages)

Analytical Data (Attachment 7, 4 pages)

UST Case Closure Summary Form

Additional Information:

Site Management Requirements: This fuel leak case has been evaluated for closure consistent with the State Water Resources 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.

If a change in land use to any residential, commercial other than as a former fueling station, or conservative land use, or if any redevelopment occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2.

This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

RWQCB Notification

Notification Date: August 22, 2014

 RWQCB Staff Name:
 Cherie McCaulou
 Title:
 Engineering Geologist

Local Agency Representative

Prepared by: Karel Detterman, P.G.	Title: Hazardous Materials Specialist
Signature: Kall Dette	Date: 12/22/2014
Approved by: Dilan Roe, P.E.	Title: LOP and SCP Program Manager
Signature: Den Pol	Date: 12 22 20 4

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) California the State of Water Resources Control Board GeoTracker website or (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

SHATTUCK IMPORTS

CSM Report	Go			GEO ^T	TRACKER HOME MA	NAGE PROJE	CTS REPORT	S SEARCH LOGOUT
SHATTUCK IMPORTS (T0600101219) - 1	MAP THIS SITE					OP	EN - ELIGIBL	E FOR CLOSURE
6562 SHATTUCK AVE OAKLAND , CA 94609 ALAMEDA COUNTY VIEW PRINTABLE CASE SUMMARY FOR THIS SITE	<u>ACTIVITIES</u> PUBLIC W	<u>S REPORT</u> /EBPAGE		CLEANUP OVE ALAMEDA COU CASEWOR SAN FRANCISC CASEWOR CR Site ID #: N	RSIGHT AGENCIES INTY LOP (LEAD) - CA INTY LOP (LEAD) - CA INTY LOP (LEAD) - CA INTY LOP (LEAD) - CA INTY LOP (LEAD) INTY LOP (LEAD) INTY SPECIFIED	ASE #: R00003 R <u>MAN</u> - SUPE GION 2) - CASE <u>u</u> - SUPERVIS	045 RVISOR: DILA #: 01-1324 SOR: Cheryl L.	N ROE Prowell
TH	HIS PROJECT WAS LAST MODIF	FIED BY <u>KAREL DI</u>	ETTERMAN ON 12	2/23/2014 10:25	25 AM - HISTORY			
	SION OF THIS REPORT							
UST CLEANUP FUND CLAIM INFORMAT	ION (DATA PULLED FRO	M SCUFIIS)						
CLAIM PRIORITY CLAIMANT ADDRESS	AMT REIMB TO AGE OF DATE LOC	IMPACTED WELLS?	REVIEW NUM	REVIEWER	FIVE YEAR REVIEW FUND RECOMMENDATION	INFORMATIO	N <u>'ERSIGHT</u> DATE	TO CLAIMANT DATE
PROJECT INFORMATION (DATA PULLE	D FROM GEOTRACKER)	- MAP THIS SIT	<u>re</u>					
SITE NAME / ADDRESS	<u>STATUS</u>	STATUS R	ELEASE REPORT	AGE OF	CLEANUP OVERS	IGHT AGENCI	ES	
SHATTUCK IMPORTS (Global ID: T0600101219) 6562 SHATTUCK AVE OAKLAND, CA 94609	Open - Eligible for Closure	7/15/2014	6/2/1985	<u>30</u>	ALAMEDA COUN CASEWORKI DILAN ROE SAN FRANCISCO CASEWORKI L. Prowell	TY LOP (LEAI ER: <u>KAREL D</u>) BAY RWQCE ER: <u>Cherie Mo</u>	D) - CASE #: F <u>ETTERMAN</u> - 3 (REGION 2) <u>Caulou</u> - SU	RO0003045 SUPERVISOR: - CASE #: 01-1324 PERVISOR: Cheryl
STAFF NOTES (INTERNAL) <no entered="" notes="" staff=""></no>								
SITE HISTORY UST removed from the site. Tank Removal Rep. A total of three soil samples were taken during ti the volatile organic compounds (VOCs): benzen residential and commercial Environmental Scree Shallow Soil, Groundwater is Current or Potentii were detected in the product piping soil sample Depth to groundwater ranged from approximatel removal, groundwater was observed at 95 inche observed in the UST pit at 11 feet bgs. Holes we primary source (two USTs and product piping) wi MTBE was not an analyte during the UST remo southwest of the site, were historically non-deter. The UST and product piping removal (source re neighboring Fuel Leak Case RO0003066 are lin The primary source (two USTs and product pipin addition with clean fill material. Volatiles (benzene, toluene, and xylenes) in the risk. Ethylbenzene was not analyzed in soil for the ta composition of gasoline. The State Water Resou an average of 1.7% by weight of ethylbenzene a that ethylbenzene concentrations, if present, wo Naphthalene was not included in the analysis of benzene in gasoline. This approach has been us average of approximately 2% benzene and 0.25 with a safety factor of about 10. The maximum E concentrations at the Site meet the Policy criteri Soil samples were not analyzed for PAHs as the RESPONSIBLE PARTIES	ort indicates minor TPH impact he May 1985 UST removal: on te, toluene, and xylenes (BTX ening Levels (ESLs) of 0.044 r al Source of Drinking Water, L up to 26 mg/kg exceeding the by 2.9 to 8.6 feet below ground es (7.9 feet) bgs and rising in t ere observed in the product pi vas removed and impacted so val. However, analytical result ct for TPHg, BTEX, and MTBE moval), the lack of VOCs dete ues of evidence that support pi ng) was removed and excaval three soil samples do not sup nk removal. Ethylbenzene cor urce Control Board's Leaking and an average of 2.0% by we uld similarly not exceed the L 'soil samples collected at the sed by SWRCB staff in recent % naphthalene (Potter and S); benzene concentrations from t a for direct contact by a factor ere was no waste oil UST.	ct to soil. ne beneath each 4.). Benzene was d milligrams per kild. December 2013). E ESL of 2.3 mg/kg d surface (bgs) in the UST pit. Simila ping, but the UST ils aerated onsite is from three grou E, suggesting a la acted during the s robable low residu ted backfill was ac oport the presence incentrations theor Underground Fue eight of benzene. I TCP Table 1 Critical ping, bit the Site are less th r of about 10. It is	of the two USTs etected in all thre ogram (mg/kg) (S Toluene and tota g. groundwater mo arly, during the U s appeared to be for two weeks to ndwater monitori ck of impact from ource removal, tt jual source mass erated onsite for e of a source mass retically would be I Tank Guidance Because benzen eria. tt data gap can be pursuant to the P erefore, benzene han the naphthal highly unlikely th	and one below see soil sample: San Francisco I al xylenes dete nitoring wells a IST removal at intact and no o reduce poten ing wells at nei n a potential cc he onsite aera and low poten two weeks to r ss with adequa e less than ber Manual CA Ll e concentration be addressed t lolicy (e.g., SW e concentration lene criteria in nat naphthalen	w the product piping s, up to a maximum Bay Regional Water ctions for the UST s at neighboring Fuel neighboring Fuel in neighboring Fuel in of sor sheen we tial concentrations. ighboring downgrad ontaminant plume er tion of backfill, and tial impact to ground reduce potential cor ate magnitude or lat izene concentration UFT (September 20 ns did not exceed the using the published (RCB WQ Order 20 is can be directly su Table 1 of the Polic e concentrations in	. Each soil sa of 0.47 mg/i r Quality Con samples were Leak Case F eak Case R(re observed lient Fuel Lea manating fro the lack of dd dwater and v ncentrations p eral extent to s based on a bl2) indicates he LTCP Tat relative cono 13-0003): Ga Jubstituted for y. Therefore, the soil, if ar	ample was an g, exceeding trol Board, T e less than the RO0003066. D0003066. D0003066. m RO000304 m RO000304 prior to use a por intrusio prior to use a possible 1 Criteria, centrations of asoline mixtu naphthalenee, the estimate y, exceed th	nalyzed only for g the benzene able A ESLs for le ESLs. Xylenes During the UST roundwater was it water. The 0003066, 330 feet 45. off-site impact to n to indoor air. Is UST backfill in apor intrusion ht percent asoline contains it is expected rnaphthalene and res contain an e oncentrations ed naphthalene e Policy criteria.
NAME ORGANIZAT	ΓΙΟΝ			ADDRESS		CITY		EMAIL
KENNETH E BEESEN KENNETH E	E BEESEN & GLORIA ZARIFA TR	RS		5700 MCFARLA	ND RD	SEBAST	OPOL	
CLEANUP ACTION INFO								
NU CLEANUP ACTIONS HAVE BEEN REPOR								
RISK INFORMATION	VIEW LTCP CHECKLIST		VIEW PATH	TO CLOSURE	PLAN		VIE	W CASE REVIEWS
Gasoline CONTAMINANTS OF CONCERN CURRENT LAND	OUSE BENEFICIAL USE GW - Municipal and Γ	Domestic Supply	DISCHARGE S Other	OURCE DAT	EREPORTED STOL 6/2/1985 Othe	er Means	NEARBY / IM	0
FREE OTHER NAME OF PRODUCT CONSTITUENTS SYSTEM NO NO EBMUD	F WATER LAST REG ACT 0 8/14/	GULATORY IVITY /2014	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLI DATE	<u>OSURE</u>	MOST RECE REQ	NT CLOSURE UEST
CDPH WELLS WITHIN 1500 FEET OF THIS SITE								
NONE								
CALCULATED FIELDS (BASED ON LATITUDE / LC	DNGITUDE)							
APN <u>GW BASIN NAM</u> 016 142501900 Santa Clara V	<u>E</u> Valley - East Bay Plain (2-9	9.04)		wat Bay	ERSHED NAME Bridges - Berkele	ey (20330)		
Alameda • EAST BAY	TER SYSTEM(S) MUD - 375 ELEVENTH STRE	EET, OAKLAND,	CA 94607					
MOST RECENT CONCENTRATIONS OF PETROLE	UM CONSTITUENTS IN GROUN	NDWATER - SHOW					VIEW	V ESI SUBMITTALS
MOST RECENT CONCENTRATIONS OF PETROLE	UM CONSTITUENTS IN SOIL -	<u>SHOW</u>					VIEW	V ESI SUBMITTALS
MOST RECENT GEO_WELL DATA - SHOW							VIEW	V ESI SUBMITTALS
LOGGED IN AS KDETTERMAN							CONTAC	T GEOTRACKER HELF

https://geotracker.waterboards.ca.gov/regulators/screens/menu.asp?GLOBAL_ID=T0600101219... 12/23/2014

ATTACHMENT 2

SHATTUCK IMPORTS

LTCP Checklist	Go	GEOTRACKER HOME MANA	GE PROJECTS REPORTS SEARCH LOGOUT
SHATTUCK IMPORTS (T0600101219) - <u>N</u>	MAP THIS SITE		OPEN - ELIGIBLE FOR CLOSURE
6562 SHATTUCK AVE OAKLAND , CA 94609 ALAMEDA COUNTY <u>VIEW PRINTABLE CASE SUMMARY FOR THIS SITE</u>	ACTIVITIES REPORT PUBLIC WEBPAGE	CLEANUP OVERSIGHT AGENCIES ALAMEDA COUNTY LOP (LEAD) - CASE #: RO CASEWORKER: (CAREL DETTERMAN) - SAN FRANCISCO BAY RWQCB (REGION 2) - CASEWORKER: <u>Cherie McCaulou</u> - SUP CR Site ID #: NOT SPECIFIED	D0003045 SUPERVISOR: DILAN ROE CASE #: 01-1324 ERVISOR: Cheryl L. Prowell
	THIS PROJECT WAS LAST MODIFIED BY KAREL DETTERMAN ON	12/23/2014 10:35:23 AM - HISTORY	
CLOSURE POLICY 7	THIS VERSION IS FINAL AS OF 12/23/2014	CHECKLIST INITIATED ON 7/30/2013	CLOSURE POLICY HISTORY
General Criteria - The site satisfies the poli	icy general criteria - CLEAR SECTION ANSWERS		NO
a la the unputherized release leasted within the			
Name of Water System :			
EBMUD			VES O NO
b. The unauthorized release consists only of petr	roleum (info).		
c. The unauthorized ("primary") release from the	UST system has been stopped.		
d Free product has been removed to the maxim	um extent practicable (info)	۲	
e A concentual site model that assesses the nat	ture extent and mobility of the release has been developed (info)	٣	
f. Secondary source has been removed to the out			I YES O NO
a Seil es assunductor has been tested for MTDE	E and reculte reported in generalence with Llaphh and Cofety Code Cost	ice 25206 45	YES ONO
g. Soll or groundwater has been tested for MTBE	and results reported in accordance with Health and Safety Code Sect	ION 25296.15.	○ Not Required ○ YES ● NO
h. Does a nuisance exist, as defined by Water Co	ode section 13050.		Ú YES 🖲 NO
1. Media-Specific Criteria: Groundwater - characteristics of one of the five classes of s	The contaminant plume that exceeds water quality objectives is sites listed below <u>CLEAR SECTION ANSWERS</u>	s stable or decreasing in areal extent, and m	eets all of the additional NO
EXEMPTION - Soil Only Case (Release has no	<u>ot</u> Affected Groundwater - <u>Info</u>)		O YES 🖲 NO
Does the site meet any of the Groundwater s	pecific criteria scenarios?		O YES 🖲 NO
ADDITIONAL QUESTIONS - Please indicate or	nly those conditions that do not meet the policy criteria:		
Plume Length (That Exceeds Water Quality	Objectives) :		
Plume is Stable or Decreasing in AREAL Ex	xtent :		
○ No ● Unknown			
Free Product in Groundwater :			
	vinum Extent Brostiashla		
	ximum Extent Practicable :		
For sites with free product, the Plume Has E	Been Stable or Decreasing for 5-Years (info) :		
For sites with free product, owner Willing to	o Accept a Land Use Restriction (if required) :		
Free Product Extends Offsite :			
Ves Unknown			
$\bigcirc \ge 1,000 \ \mu g/l \ and < 3,000 \ \mu g/l \ \bigcirc \ge 3,000$) µg/l		
MTBE Concentration :			
O≥ 1,000 μg/l ● Unknown			
Nearest Supply Well (From Plume Boundary $\bigcirc \le 250$ Feet $\bigcirc > 250$ Feet and ≤ 1.000 F	y): eet OUnknown		
Nearest Surface Water Body (From Plume B	Boundary) :		
○ ≤ 250 Feet ○ > 250 Feet and ≤ 1,000 F	eet OUnknown		
2. Media Specific Criteria: Petroleum Vap items 2a, 2b, or 2c - CLEAR SECTION ANSWERS	oor Intrusion to Indoor Air - The site is considered low-threat for	or the vapor-intrusion-to-air pathway if site-s	pecific conditions satisfy NO
EXEMPTION - Active Commercial Petroleum I	Fueling Facility		O YES (NO
Does the site meet any of the Petroleum Vapo	or Intrusion to Indoor Air specific criteria scenarios?		
ADDITIONAL QUESTIONS - Please indicate or	nly those conditions that do not meet the policy criteria:		0 120 0 110
Soil Gas Samples :			
No Soil Gas Samples O Taken Incorrect	tly		
CResidential Commercial			
Free Product :			
O In Groundwater O In Soil O Unknowr	n		
IPH in the Bioattenuation Zone : ○≥ 100 mg/ka ○ Unknown ○ Soil same	ples not taken at two depths within 5 ft. zone (only for Scenario 4 with F	BioZone)	
Bioattenuation Zone Thickness :			
● < 5 Feet (No BioZone) ○ ≥ 5 Feet and <	< 10 Feet $\bigcirc \ge 10$ Feet and < 30 Feet $\bigcirc \ge 30$ Feet $\bigcirc 30$ floor	ne Compromised TPH > 100mg/kg OUnknown	
O2 Data in Bioattenuation Zone :			
$ \boxed{\bigcirc} \mathbb{N} \mathbb{O} \mathbb{O}_2 \text{ Data } \bigcirc \mathbb{O}_2 < 4\% \bigcirc \mathbb{O}_2 \ge 4\% $			
	ıg/l 💿 Unknown		
Soil Gas Benzene :			

https://geotracker.waterboards.ca.gov/regulators/screens/closure_policy.asp?global_id=T0600101219&1... 12/23/2014

SHATTUCK IMPORTS

\bigcirc ≥ 85 µg/m ³ and < 280 µg/m ³ \bigcirc ≥ 280 µg/m ³ and < 85,000 µg/m ³ \bigcirc ≥ 85,000 µg/m ³ and < 280,000 µg/m ³ \bigcirc ≥ 280,000 µg/m ³ \bigcirc Unknown		
Soil Gas EthylBenzene :		
$\bigcirc \ge 1,100 \ \mu g/m^3$ and $< 3,600 \ \mu g/m^3$ $\bigcirc \ge 3,600 \ \mu g/m^3$ and $< 1,100,000 \ \mu g/m^3$ $\bigcirc \ge 1,100,000 \ \mu g/m^3$ and $< 3,600,000 \ \mu g/m^3$ $\bigcirc \ge 3,600,000 \ \mu g/m^3$ \bigcirc Unknown		
Soil Gas Naphthalene : ○ ≥ 93 µg/m³ and < 310 µg/m³ ○ ≥ 310 µg/m³ and < 93,000 µg/m³ ○ ≥ 93,000 µg/m³ and < 310,000 µg/m³ ○ ≥ 310,000 µg/m³ ○ Unknown		
3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below <u>CLEAR SECTION ANSWERS</u>		NO
EXEMPTION - The upper 10 feet of soil is free of petroleum contamination	$\bigcirc \mathbf{YES}$	NO
Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?	$^{\rm O}$ yes	NO
ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:		
○ Residential ● Commercial ○ Utility Worker		
Petroleum Constituents in Soil :		
O ≤ 5 Feet bgs O >5 Feet bgs and ≤10 Feet bgs O Unknown		
Soil Concentrations of Benzene :		
○ > 1.9 mg/kg and ≤ 2.8 mg/kg ○ > 2.8 mg/kg and ≤ 8.2 mg/kg ○ > 8.2 mg/kg and ≤ 12 mg/kg ○ > 12 mg/kg and ≤ 14 mg/kg ○ > 14 mg/kg ○ Unknown		
Soil Concentrations of EthylBenzene :		
○> 21 mg/kg and ≤ 32 mg/kg ○> 32 mg/kg and ≤ 89 mg/kg ○> 89 mg/kg and ≤ 134 mg/kg ○> 134 mg/kg and ≤ 314 mg/kg ○> 314 mg/kg ④ Unknown		
Soil Concentrations of Naphthalene :		
\bigcirc > 9.7 mg/kg and \le 45 mg/kg \bigcirc > 45 mg/kg and \le 219 mg/kg \bigcirc > 219 mg/kg \bigcirc Unknown		
Soil Concentrations of PAH :		
○ > 0.063 mg/kg and ≤ 0,68 mg/kg ○ > 0.68 mg/kg and ≤ 4.5 mg/kg ○ > 4.5 mg/kg ○ Unknown		
Area of Impacted Soil :		
O Area of Impacted Soil > 82 by 82 Feet O Unknown		
Additional Information		
Should this case be closed in spite of NOT meeting policy criteria?		
Explain:	VES	
Please see Site History Section of the CSM.	© 123	
Has this LTCP Checklist been updated for FY 14/15?	• YES	O NO
SPELL CHECK		
Save Form as Partially Completed Save Form as Complete		
.OGGED IN AS KDETTERMAN	T GEOTRA	CKER HELF

ATTACHMENT 3 LTCP GROUNDWATER SPECIFIC CRITERIA

LTCP Groundwater Specific Scenario under which case was closed: Scenario 5										
Site D		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria					
Plume Length	<330	feet	<100 feet	<250 feet	<250 feet	<1,000 feet				
Free Product			No free product	No free product	Removed to maximum extent practicable	No free product				
Plume Stable or Decreasing			Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing				
Distance to Nearest Water Supply Well	>1,300 feet		>250 feet	>1,000 feet	>1,000 feet	>1,000 feet				
Distance to Nearest Surface Water and Direction	Claremont Creek is 950 feet upgradient		>250 feet	>1,000 feet	>1,000 feet	>1,000 feet				
Property Owner Willing to Accept a Land Use Restriction?			Not applicable	Not applicable	Yes	Not applicable				
	GRC	JUNDWATER	CONCENTRAT	IONS						
Constituent	Historic Site Maximum (µg/L)	Current Site Maximum (µg/L)	LTCP Scenario 1 Criteria (µg/L)	LTCP Scenario 2 Criteria (µg/L)	LTCP Scenario 3 Criteria (µg/L)	LTCP Scenario 4 Criteria (µg/L)				
Benzene			No criteria	3,000	No criteria	1,000				
MTBE		!	No criteria	1,000	No criteria	1,000				
List other chemicals of specific concern										
Scenario 5: If the site does not meet scenarios 1 through 4, I determination been made that under current and reasonably future scenarios, the contaminant plume poses a low threat to health and safety and to the environment and water quality of be achieved within a reasonable time frame?			, has a y expected to human objectives will		Yes					

Attachment 3 Comments:

Groundwater flow direction at the site is estimated to be to the southwest based on data from neighboring Fuel Leak Case (RO0003066) at 6501 Shattuck Ave, Oakland, located approximately 330 feet southwest and downgradient.

Depth to water in groundwater monitoring wells at neighboring Fuel Leak Case (RO0003066) located at 6501 Shattuck Ave, Oakland was found to fluctuate between 2.94 feet to 8.60 feet below ground surface (bgs).

Water Supply Wells in Vicinity:

No sensitive receptor survey has been performed for the site. However, a sensitive receptor survey conducted for nearby Fuel Leak Case (RO0000078) located at 6407 Telegraph Ave, Oakland indicated one irrigation well was located at 3215 Adeline Street, Berkeley, a distance of approximately 1,300 feet down gradient from the site. Based on the non-detect contaminant levels, this irrigation well is not expected to be a receptor for the site. No other supply wells were identified within 2,000 feet of the site.

A total of three soil samples were taken during the May 1985 UST removal: one beneath each of the two USTs and one below the product piping. Each soil sample was analyzed only for the volatile organic compounds (VOCs): benzene, toluene, and xylenes (BTX). Benzene was detected in all three soil samples, up to a maximum of 0.47 mg\kg, exceeding the benzene residential and commercial Environmental Screening Levels (ESLs) of 0.044 milligrams per kilogram (mg/kg) (San Francisco Bay Regional Water Quality Control Board, *Table A ESLs for Shallow Soil, Groundwater is Current or Potential Source of Drinking Water, December 2013*). Toluene and total xylenes detections for the UST samples were less than the ESLs. Xylenes were detected in the product piping soil sample up to 26 mg/kg exceeding the ESL of 2.3 mg/kg.

Depth to groundwater ranged from approximately 2.9 to 8.6 feet bgs in groundwater monitoring wells at neighboring Fuel Leak Case (RO0003066). During the UST removal, groundwater was observed at 95 inches (7.9 feet) bgs and rising in the UST pit. Similarly, during the UST removal at neighboring Fuel Leak Case RO0003066, groundwater was observed in the UST pit at 11 feet bgs. Holes were observed in the product piping, but the USTs appeared to be intact and no odors or sheen were observed in the UST pit water. The primary source (two USTs and product piping) was removed and impacted soils aerated onsite for two weeks to reduce potential concentrations.

MTBE was not an analyte during the UST removal. However, analytical results from three groundwater monitoring wells at neighboring downgradient Fuel Leak Case RO0003066, 330 feet southwest of the site, were historically non-detect for TPHg, BTEX, and MTBE, suggesting a lack of impact from a potential contaminant plume emanating from RO0003045.

The UST and product piping removal (source removal), the lack of VOCs detected during the source removal, the onsite aeration of backfill, and the lack of downgradient off-site impact to neighboring Fuel Leak Case RO0003066 are lines of evidence that support probable low residual source mass and low potential impact to groundwater.

ATTACHMENT 4										
LTCP Vapor Specific Scenario under which case was closed: 3A										
Not an Active Fueling Station	Not an Active Fueling Active as of:									
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCF Scen Crite	o Iario 3B ria	LTCP Scenario 3 Criteria	LTCP C Scenario 4 Criteria		
Unweathered LNAPL	No LNAPL	LNAPL in groundwater	LNAPL in soil	No LNAPL	No L	NAPL	No LNAPL	No criteria		
Thickness of Bioattenuation Zone Beneath Foundation	<5 feet*	≥30 feet	≥30 feet	≥5 feet	≥10	feet	≥5 feet	≥5 feet		
Total TPH in Soil in Bioattenuation Zone		<100 mg/kg	<100 mg/kg	<100 mg/kg	<1 mg	100 g/kg	<100 mg/kg	<100 mg/kg		
Maximum Current Benzene Concentration in Groundwater		No criteria	No criteria	<100 µg/L	≥100 <1, µ() and ,000 g/L	<1,000 μg/L	No criteria		
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No o dat <4	No oxygen ≥ data or lov <4% o		≥4% at lower end of zone		
Depth of soil vapor measurement beneath foundation		No criteria	No criteria	No criteria	No c	No criteria No criteria		≥5 feet		
SCE	NARIO 4 DIRECT	MEASUREM	ENT OF SOIL	VAPOR CO	NCEN	TRATIC	NS			
Site Soil	/apor Data		No Bioatte	enuation Zone Bioattenuation Zone				tion Zone		
Constituent	Historic Maximum (µg/m³)	Current Maximum (µg/m ³)	Residential	Commer	cial	Resi	dential	Commercial		
Benzene			<85	<280		<8	5,000	<280,000		
Ethylbenzene			<1,100	<3,600	C	<1,1	00,000	<3,600,000		
Naphthalene			<93	<310		<93,000 <310,0		<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?						Ň	/es			
* Based on data for neighbo	ring downgradien	it Fuel Leak Ca	ase RO000306	6 located 33	0 feet	southwe	est of the site	Э.		

The primary source (two USTs and product piping) was removed and excavated backfill was aerated onsite for two weeks to reduce potential concentrations prior to use as UST backfill in addition with clean fill material. Volatiles (benzene, toluene, and xylenes) in the three soil samples do not support the presence of a source mass with adequate magnitude or lateral extent to suspect a vapor intrusion risk.

ATTACHMENT 5 LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA

LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed:

A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health.							
Are maximum c	oncentrations les	s than those in T	able 1 below?	No			
		Residential		Commerci	al/Industrial	Utility Worker	
Constituent		0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 5 feet bgs (mg/kg) Volatilization to outdoor air (5 to 10 feet bgs) mg/kg		0 to 10 feet bgs (mg/kg)	
Site Maximum	Benzene			0.47	0.25	0.47	
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14	
Site Maximum	Ethylbenzene			*	*	*	
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314	
Site Maximum	Naphthalene			*	*	*	
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219	
Site Maximum	PAHs			*	*	*	
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?					-		

*Ethylbenzene was not analyzed in soil for the tank removal. Ethylbenzene concentrations theoretically would be less than benzene concentrations based on average weight percent composition of gasoline. The State Water Resource Control Board's *Leaking Underground Fuel Tank Guidance Manual* CA LUFT (September 2012) indicates that fresh gasoline contains an average of 1.7% by weight of ethylbenzene and an average of 2.0% by weight of benzene. Because benzene concentrations did not exceed the LTCP Table 1 Criteria, it is expected that ethylbenzene concentrations, if present, would similarly not exceed the LTCP Table 1 Criteria.

Naphthalene was not included in the analysis of soil samples collected at the site. This apparent data gap can be addressed using the published relative concentrations of naphthalene and benzene in gasoline. This approach has been used by SWRCB staff in recent Closure Orders pursuant to the Policy (e.g., SWRCB WQ Order 2013-0003): Gasoline mixtures contain an average of approximately 2% benzene and 0.25% naphthalene (Potter and Simmons 1998); therefore, benzene concentrations can be directly substituted for naphthalene concentrations with a safety factor of about 10. The maximum benzene concentrations from the Site are less than the naphthalene criteria in Table 1 of the Policy. Therefore, the estimated naphthalene concentrations at the Site meet the Policy criteria for direct contact by a factor of about 10. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the Policy criteria. Soil samples were not analyzed for PAHs as there was no waste oil UST.

ATTACHMENT 6



Google earth

100



LOCATIONS FOUND		
226 WELL CLUSTER	ZOOM IN ON LOCATION	[VIEW WELLS IN CLUSTER]



Google earth

10



ATTACHMENT 7

RECEIVED



1:33 pm, Jul 23, 2010

Alameda County Environmental Health

WALKER'S HYDRAULICS 250 KEATS CIRCLE / PLEASANT HILL, CA 94523 / 935-5518

July 3, 1985

Mr. Ken Beesen Shattuck Import Service 6562 Shattuck Ave. Oakland, Ca. 94609

Re: Removal of gasoline storage tanks.

Dear Mr. Beesen,

The following is a list of procedures we followed on removal of your gasoline storage tank as requested by the City of Oakland Fire Dept.:

1.. Notified city Fire Marshall and obtained permit.

2. At the time of excavation , we found several holes in the gasoline product lines allowing product to go into backfill area. We notified Mr. Gordon Gullett of Oakland Fire Dept and Mr. Dale Bowyer of the Regioal Water Resources Board. They asked that soil samples be taken.

3. Tanks were removed and disposed of. Soil samples (see attached sampling sketch) were taken (see lab report).

4. During the 2 week wait for the lab report, we spread the excavated backfill around the lot to evaporate and dry. The soil was stirred every other day and spread at a depth of 12-16 in.

5. Lab report showed a max. of 42 P.P.M.

6. Upon receiving lab report, I contacted Mr. Peter Johnson of the Regional Water Board. He said that the above measures were adequate and to go ahead and fill the excavated site and pour a slab.

Thank you for your patience with us on this project.

Sincerely, mond'E. Walter

Raymond E. Walker





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RECEIVED

1:27 pm, Jul 23, 2010

Alameda County Environmental Health

Trevor Pitts Zero Waste 2928 Poplar Street Oakland, California 94608

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES			DA	TE SAMPLED
05-348-1 05-348-2 05-348-3	#1 Bottom #2 Bottom #3 Bottom				22 MAY 85 22 MAY 85 22 MAY 85 22 MAY 85
PARAMETER		05-348-1	05-348-2	05-348-3	
Fuel Aromat Benzene, m Total Fuel Toluene, m Total Xyle	tics/Hydrocarbons ng/kg Hydrocarbons, mg/kg ng/kg ene Isomers, mg/kg	0.25 1.2 0.18 0.5	<0.08 0.3 0.13 <0.2	0.47 42 1.6 26	

James Hatfield, Laboratory Director

LOG NO: E85-05-348

Received: 22 MAY 85 Reported: 07 JUN 85

ZERO WASTE SYSTEMS, Inc. Page (ANALYSIS AND CHAIN OF CUSTODY FORM 2928 Poplar St. • Oakland, CA 94608 (415) 893-8257 Source of material: Shattuck Import Service 652-1347 Examplian - underground turks 6562 shattuck Ave oakland 94609 Owner or generator: RECEIVED Kenneth Beesen 1:34 pm, Jul 23, 2010 Who will be billed? Include billing address. Alameda County Kenneth Beasen Environmental Health 95 " Comments: Two tooks removed, water tevel in excouration about below grade + rising. somples copped + refrigerated in mediately. Odor + information from excavators indicated leaks in pipework at the west end of the tasks samples chosen to be "worst case" Ground water shows no gasoline sheen or odor. Sample Code or ID Expected material: #1, #2, #3 Gasoline in soil (see sketch) .tual material: (Attach any documentation or printouts to this form.) Kereased by: (owner signature From: (type of Sampling method: Sampled by: Date: envelle (Server container or (one sample of 5-22-85 TREVOR area) soil - core hanner PITTS KENNETH E- BRESEN see Shetch (2wS)To custody of: (signature Time: and print name) 4.30 m TREVOR PITTS ________ Route or shipper: Date: Time: Moved where? To_ Brown + Caldwell SWS 4,50pm 5-22-85 Emery ville To custody of: Brown + Caldwell Comments: Fuel BTX analysis Ficklin HEDY J. FICKLIN 5/22-85 511PL Signature and print name Redul Time: Route or shipper: Date: Moved where? To custody of: Comments:

Signature and print name