ALAMEDA COUNTY **HEALTH CARE SERVICES**

AGENCY



ALEX BRISCOE, Director

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

May 5, 2015

Dan Fernandes Jones Lang LaSalle Corporate Solutions 3800 Hamlin Road, Suite 100 Auburn Hills, MI 48326 (Sent via E-mail to: Dan.Fernandes@am.jll.com)

Eric S. Carlson Volkswagen Group of America 2200 Ferdinand Porsche Drive Herndon, VA 20171 (Sent via E-mail to: eric.carlson@vw.com)

Subject: Case Closure for Fuel Leak Case No. RO0000400 and GeoTracker Global ID T0600100227, Broadway Volkswagen, 2740 Broadway, Oakland, CA 94612

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 (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Dilan Roe, P.E.

LOP and SCP Program Manager

Enclosures:

1. Remedial Action Completion Certification

2. Case Closure Summary Responsible Parties RO0000400 May 5, 2015 Page 2

Cc w/enc.:

James Bryson, ARCADIS, 855 Route 146, Suite 210, Clifton Park, NY 12065 (Sent via E-mail to: <u>James.Bryson@arcadis-us.com</u>)

Christopher Hahn, Volkswagen Group of America, 2200 Ferdinand Porsche Drive, Herndon, VA 20171 (Sent via E-mail to: christopher.hahn@vw.com)

Caitlin Bell, ARCADIS, 1900 Powell Street, Suite 1200, Emeryville, CA 94608 (Sent via E-mail to: Caitlan.Bell@arcadis-us.com)

Mark J. Arniola, City of Oakland Public Works Environmental Services, 250 Frank H. Ogawa Plaza, Suite 4314, Oakland, CA 94612 (Sent via E-mail to: marniola@oaklandnet.com)

Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker, eFile

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



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

ALEX BRISCOE, Agency Director

REMEDIAL ACTION COMPLETION CERTIFICATION

May 5, 2015

Dan Fernandes
Jones Lang LaSalle Corporate Solutions
3800 Hamlin Road, Suite 100
Auburn Hills, MI 48326
(Sent via E-mail to: Dan Fernandes@am.ill.com)

Eric S. Carlson
Volkswagen Group of America
2200 Ferdinand Porsche Drive
Herndon, VA 20171
(Sent via E-mail to: eric.carlson@vw.com)

Subject: Case Closure for Fuel Leak Case No. RO0000400 and GeoTracker Global ID T0600100227, Broadway Volkswagen, 2740 Broadway, Oakland, CA 94612

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,

Ronald Browder Director

ld browder

UST Case Closure Summary Form

Agency Information

Date: August 13, 2014

Agency Name: Alameda County Environmental Health	Address:1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone:510-567-6791
Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

Case Information

Site Name: Broadway Volkswage	en	E				
Site Address: 2740 Broadway, O	akland, CA 94612	8				
RB LUSTIS Case No: 01-0241	Local Case No.: NA	LOP Case No.: RO0000400				
URF Filing Date: 01/18/1989	GeoTracker Global ID: T0600100227					
APN: 9-685-19-1	Current Land Use: Commercial					
Responsible Party(s):	Address:	Phone:				
Megan Lambert Volkswagen Group of America	3800 Hamlin Road Auburn Hills, MI 48326 No phone number					
Eric S. Carlson Volkswagen Group of America	2200 Ferdinand Porsche Drive Herndon, VA 20171 No phone number					

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
Α	1,000 gallons	Waste Oil	Removed	08/15/1988
В	300 gallons	Waste Oil	Removed	08/15/1988
С	550 gallons	Gasoline	Removed	08/15/1988
D	1,500 gallons	Unknown	Removed	08/23/1988

Conceptual Site Model (Attachment 1)

Closure Criteria Met (Attachment 2)

LTCP Groundwater Specific Criteria (Attachment 3)

LTCP Vapor Specific Criteria (Attachment 4)

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

Site Maps (Attachment 6)

Analytical Data (Attachment 7)

UST Case Closure Summary Form

Additional Information:

Water Supply Wells in Vicinity:

No water supply wells appear to be located within 1,000 feet of the site.

Plume Length:

The plume has not been fully delineated to the north due to the presence of a large off-site building. The hydraulic gradient at the site has been variable, typically ranging from west to northwest. The Regional groundwater flow in the area of the site is generally towards the south or southeast. The plume is more than 25 years old and appears to be stable to decreasing. Based on source area concentrations, the age of the plume, and groundwater monitoring results along the apparent flow direction, plume length is estimated to be less than 1,000 feet. The nearest known water supply well is more than 2,000 feet from the site. Therefore, the plume boundary is estimated to be more than 1,000 feet from the nearest water supply well.

Trichloroethene in Groundwater:

Trichloroethene (TCE) was detected in groundwater at concentrations up to 2,100 micrograms per liter. The highest concentrations were detected in groundwater samples from monitoring wells that are screened across the deeper, semi-confined aquifer (MW-4, MW-5 and MW-6). TCE has been detected at significantly lower concentrations (typically less than 100 micrograms per liter) in groundwater samples collected from the shallower perched groundwater zone. Groundwater in the semi-confined aquifer appears to have crosscontaminated the shallow groundwater zone by migrating upwards through the monitoring wells that are completed in both zones. The TCE is suspected to be from an off-site source. Monitoring wells MW-4, MW-5, and MW-6 were destroyed on March 16, 1994 to prevent further migration of TCE into shallow groundwater.

Site Management Requirements:

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.

KWQCB N	Notification	
KMACRI	lotification	

RWQCB Notification	Date of Notification: August 6, 2014
RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist

Local Agency Representative

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: Wulden	Date: 0 8 / 2 8 / 2 0 1 4
Approved by: Dilan Roe	Title: LOP PROGRAM MANAGER
Signature: Dla la	Date: 8/28/2014

UST Case Closure Summary Form

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. 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.

BROADWAY VOLKSWAGEN

CSM Report

✓ Go

GEOTRACKER HOME | MANAGE PROJECTS | REPORTS | SEARCH | LOGOUT

BROADWAY VOLKSWAGEN (T0600100227) - MAP THIS SITE

OPEN - VERIFICATION MONITORING

2740 BROADWAY

OAKLAND , CA 94612 ALAMEDA COUNTY ACTIVITIES REPORT
PUBLIC WEBPAGE

CLEANUP OVERSIGHT AGENCIES

ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000400

CASEWORKER: Jerry Wickham - SUPERVISOR: DILAN ROE

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0241

CASEWORKER: Cherie McCaulou - SUPERVISOR: Cheryl L. Prowell

CUF Claim #: 13650 CUF Priority Assigned: D CUF Amount Paid: \$0

THIS PROJECT WAS LAST MODIFIED BY JERRY WICKHAM ON 6/25/2014 4:17:23 PM - HISTORY

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

CSM REPORT	2							
CLAIM INFORMATION	***************************************					8		
	<u>ANT</u> SWAGEN OF AMERICA HAMLIN RD #100, AUBURN I	HILLS MI 48326	SITE ADDRE 2740 BROA OAKLAND,	DWAY	AMT REIMB TO DA	TE AGE OF L	OC IMPACTE	D WELLS?
PROJECT INFORMATION -	MAP THIS SITE							
SITE NAME / ADDRESS	STATUS		STATUS DATE	AGE OF CASE	CLEANUP OVERSION	HT AGENCIES		
BROADWAY VOLKSWAGE (T0600100227) 2740 BROADWAY OAKLAND, CA 94612	EN Open - Ver Monitoring	ification	4/22/2014	26	SAN FRANCISCO	R: Jerry Wickham	- SUPERVISOR GION 2) - CASE #	: DILAN ROE 1: 01-0241
STAFF NOTES (INTER- NO STAFF NOTES ENTERED SITE HISTORY The site is a automobile dealer 27th Street (Tank A), one 300-ç and one 1,500-gallon gasoline	D> ship. Site investigation activitiegalion waste oil gasoline (Tanl	(B) beneath sidew	alk along Broady	vay, one 550-	gallon gasoline (Ta	nk C) beneath si	dewalk along 2	8th Street,
in the tank pits for Tanks C and completed at the site in Februa	D. A soil vapor and groundwa	ater extraction syst	tem operated at t nder the Low-thre	he site from F eat Closure Po	ebruary 1996 throu olicy.			
RISK INFORMATION	VIEW LTCP CHE	CKLIST	VIEW	PATH TO CLO	SURE PLAN			SE REVIEWS
CONTAMINANTS OF CONCERN Trichloroethylene (TCE), Gasoline		FICIAL USE Municipal and Do ly	sou	CHARGE RCE k	DATE REPORTED 1/18/1989	STOP METHOD Other Means	NEARBY / IMP WELLS 0	
FREE OTHER PRODUCT CONTITUEN NO NO	NAME OF WATER SYSTEM EBMUD	LAST REGL ACTIV 4/22/2	<u>/ITY</u>	LAST ESI UPLOAD 6/17/2014	EXPECTED CLC DATE	OSURE MC	OST RECENT CLO REQUEST	SURE
CDPH WELLS WITHIN 1000 FEE	ET OF THIS SITE							
RESPONSIBLE PARTIES								
NAME FIRST2299 LAST2299 TOM MOFFATT	ORGANIZATION BROADWAY VOLKS\ C/O TRAMMELL CRO		27	<u>DRESS</u> 40 BROADWA 00 HAMLIN RD	Y	CITY OAKLAND AUBURN HILLS	<u>E</u>	MAIL
CALCULATED FIELDS (BASED	ON LATITUDE / LONGITUDE)							
APN G	GANTA CLARA VALLEY - PUBLIC WATE EAST BAY MUD - 3	R SYSTEM(S	1) <u>S</u> c	ATERSHED N outh Bay - Ea		ies (20420	0)
MOST RECENT CONCENTRATIO	ONS OF PETROLEUM CONSTIT	UENTS IN GROUND	WATER - HIDE					
FIELD PT NAME DUP MW-1 MW-3 MW-7 MW-8 MW-9 TB VW-1 VW-2 VW-3	DATE 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013 6/19/2013	BENZENE ND ND ND ND 360 UG/L 1500 UG/L ND ND 270 UG/L 72 UG/L	TOLUENE ND ND ND ND ND ND ND ND ND 19 UG/L ND ND 58 UG/L ND	1 <u>6</u> 11	BENZENE ND ND ND ND ND O D O D O D O D O D O D	XYLENES	MTBE ND 0.5 UG/L ND ND 1.3 UG/L ND ND ND ND ND	BA 20 20 20 20 20 20 20 20 20 20 20 20 20
MOST RECENT CONCENTRATION	ONS OF PETROLEUM CONSTIT	UENTS IN SOIL - HI	DE					
FIELD PT NAME MW8-10-10. MW8-15-15. MW8-5.0-5. MW9-10-10. MW9-15-15. MW9-5.0-5.	DATE TPHα 6/13/2013 6/13/2013 6/13/2013 6/13/2013 6/13/2013 6/13/2013 6/13/2013	BENZENE ND	TOLUENE ND		ND ND ND ND ND 16 UG/KG ND	XYLENES	MTBE ND ND ND ND ND ND	<u>TBA</u>

MOST RECENT GEO_WELL DATA - HIDE

BROADWAY VOLKSWAGEN

Page 2 of 2

FIELD PT NAME	DATE	DEPTH TO WATER (FT)	SHEEN	DEPTH TO FREE PRODUCT (FT)	
MW-1	6/19/2013	6.4	N		
MVV-3	6/19/2013	9.3	N		
MW-7	6/19/2013	9.59	N		
MW-8	6/19/2013	10.4	N		
MW-9	6/19/2013	9.44	N		
VW-1	6/19/2013	. 9.42	N		
VW-2	6/19/2013	9.23	N		
VW-3	6/19/2013	8.2	N		

LOGGED IN AS JWICKHAM

CONTACT GEOTRACKER HELP

LTCP Checklist	GEOTRACKER HOME MANAGE PROJECTS REPORTS SEA	RCH LOGOUT
BROADWAY VOLKSWAGEN (T0600100227) - MAP THIS SITE	OPEN - ELIGIE	LE FOR CLOSURE
2740 BROADWAY OAKLAND , CA 94612 ACTIVITIES REPORT	CLEANUP OVERSIGHT AGENCIES ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000400	
ALAMEDA COUNTY PUBLIC WEBPAGE	CASEWORKER: Jerry Wickham - SUPERVISOR: DILAN	I ROE
VIEW PRINTABLE CASE SUMMARY FOR THIS SITE	SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-02 CASEWORKER: Cherie McCaulou - SUPERVISOR: Che	41
	CUF Claim #: 13650 CUF Priority Assigned: D CUF Amo	STRANS III AC COMMON CHISCOLOGIC
THIS PROJECT WAS LAST N	ODIFIED BY JERRY WICKHAM ON 8/6/2014 6:07:23 PM - HISTORY	
THIS SITE HAS SUBMITTALS. CLICK HERE TO OPE	N A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE I	OR THIS SITE.
CLOSURE POLICY THIS VERSION IS FINAL AS (OF 8/6/2014 CHECKLIST INITIATED ON 11/14/2012 CLOSURE POL	ICY HISTORY
General Criteria - The site satisfies the policy	general criteria - CLEAR SECTION ANSWERS YI	ES
a. Is the unauthorized release located within the service area of a public Name of Water System: EBMUD	water system?	● YES O NO
b. The unauthorized release consists only of petroleum (info).		● YES O NO
c. The unauthorized ("primary") release from the UST system has been	stopped.	YES O NO
d. Free product has been removed to the maximum extent practicable (ii	estations and	YES O NO
e. A conceptual site model that assesses the nature, extent, and mobility	O 11 Hot Endounted	YES ONO
f. Secondary source has been removed to the extent practicable (info).	and the second developed mine.	YES ONO
g. Soil or groundwater has been tested for MTBE and results reported in	accordance with Health and Safety Code Section	
25296.15.	O Not Required	YES O NO
h. Does a nuisance exist, as defined by Water Code section 13050.		O YES NO
	ne contaminant plume that exceeds water quality objective s all of the additional characteristics of one of the five clas	
EXEMPTION - Soil Only Case (Release has not Affected Groundwat	er - <u>Info</u>)	O YES @ NO
Does the site meet any of the Groundwater specific criteria scenario	os?	● YES O NO
	ecific conditions, that the site under current and reasonably anticipated near-term salth and safety and to the environment and water quality objectives will be achieved	● YES O NO
	Intrusion to Indoor Air - The site is considered low-three	
EXEMPTION - Active Commercial Petroleum Fueling Facility		O YES @ NO
Does the site meet any of the Petroleum Vapor Intrusion to Indoor	Air specific criteria scenarios?	● YES O NO
2a - Scenario 3 (example): Dissolved Phase Benzene Concentrations O measurements must satisfy one i, ii, or iii):	nly in Groundwater (Low concentration groundwater scenarios with or without O2	YES
	4% and benzene concentration are <100 µg/L, the bioattenuation zone: Is a between the dissolved phase benzene and the foundation of existing or potential th of the bioattenuation zone.	O YES O NO
ii. For bioattenuation zone without oxygen measurements or oxygen zone: Is a continuous zone that provides a separation of at least 10 fe potential building, and contain total TPH <100 mg/kg throughout the e	4.4% and benzene concentration are >100 μg/L but <1,000 μg/L, the bioattenuation bet vertically between the dissolved phase benzene and the foundation of existing or entire depth of the bioattenuation zone.	O YES O NO
iii. For bioattenuation zone with oxygen ≥ 4% and benzene concentra separation of at least 5 feet vertically between the dissolved phase be <100 mg/kg throughout the entire depth of the bioattenuation zone.	tion are <1,000 µg/L, the bioattenuation zone: Is a continuous zone that provides a enzene and the foundation of existing or potential building, and contain total TPH	⊕ YES O NO
3. Media Specific Criteria: Direct Contact an for direct contact and outdoor air exposure if it	nd Outdoor Air Exposure - The site is considered low-thi meets 1, 2, or 3 below CLEAR SECTION ANSWERS	reat YES
EXEMPTION - The upper 10 feet of soil is free of petroleum contami	nation	O YES @ NO
Does the site meet any of the Direct Contact and Outdoor Air Expos	sure criteria scenarios?	⊕ YES O NO
3.1 - Maximum concentrations of petroleum constituents in soil are less ground surface.	than or equal to those listed in the following table (LINK) for the specified depth below	● YES O NO
Additional Information		
This case should be kept OPEN in spite of meeting policy criteria.		O YES O NO
Has this LTCP Checklist been updated for FY 14/15?		● YES O NO
	SPELL CHECK	0 110
Save Form as P	artially Completed Save Form as Complete	

LOGGED IN AS JWICKHAM

ATTACHMENT 2

ATTACHMENT 3 LTCP GROUNDWATER SPECIFIC CRITERIA

LTCP Groundwater Specific Scenario under which case was closed: Scenario 4

Site		LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)	
Plume Length	Estimated <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	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	>1,000	>1,000 feet		>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction		430 feet east (appears to be upgradient)		>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not app	Not applicable		Not applicable	Yes	Not applicable
at	GRO	UNDWATER	CONCENTRAT	TONS		
Constituent	Historic Site Maximum (ppb)	Current Site Maximum (ppb)	LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Benzene	9,600	500	No criteria	3,000	No criteria	1,000
MTBE	5.7			1,000	No criteria	1,000
Scenario 5: If the site does determination been made the future scenarios, the contaminant health and safety and to the be achieved within a reason.	at under current a inant plume pose environment and	and reasonably es a low threat I water quality	y expected to human	и ш		

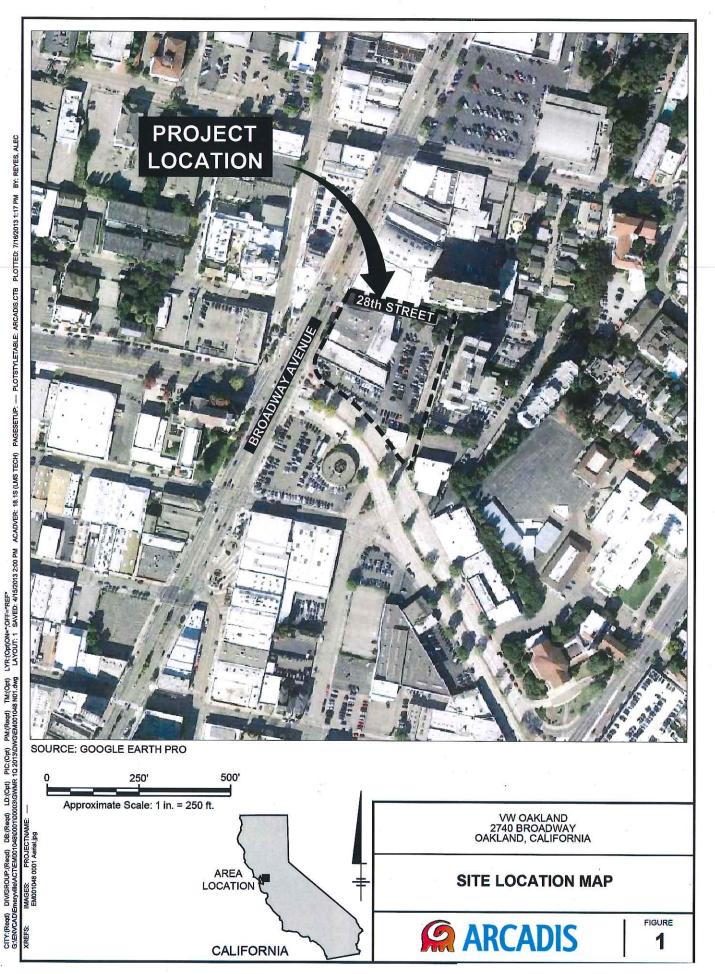
		ATT.	ACHMENT 4	RITERIA			10
LTCP Vapor Specific Scena	ario under which						
Active Fueling Station	No		8		6 0	i l	ű.
Site Data	e e	LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered NAPL	No NAPL	LNAPL in groundwater	LNAPL in soil	No NAPL	No NAPL	No NAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	> 8 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Bioattenuation Zone	< 56 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm
Maximum Current Benzene Concentration in Groundwater	500 ppb	No criteria	No criteria	<100 ppb	≥100 and <1,000 ppb	<1,000 ppb	No criteria
Oxygen Data within Bioattenuation Zone	≥4% at lower end of zone	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	5 feet	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet
SCE	NARIO 4 DIREC	CT MEASUREM	ENT OF SOII	VAPOR CO	NCENTRATIO	NS	
Site Soil	Vapor Data		No Bioat	tenuation Zone	e i	Bioattenuation	on Zone
Constituent	Historic Maximum (µg/m³)	Current Maximum (µg/m³)	Residential	Commerc	cial Resi	dential (Commercial
Benzene	6.3	6.3	<85	<280	<8	5,000	<280,000
Ethylbenzene	<5.6	<5.6	<1,100	<3,600	<1,1	00,000	<3,600,000
Naphthalene	<27	<27	<93	<310	<9:	3,000	<310,000
If the site does not meet so assessment for the vapor ir health is protected?					ė.		
If the site does not meet so made that petroleum vapors significant risk of adversely controlling exposure throug the use of institutional contr	s from soil or gro affecting human h the use of miti	oundwater will ha health as a res	ave no ult of				G.

ATTACHMENT 5

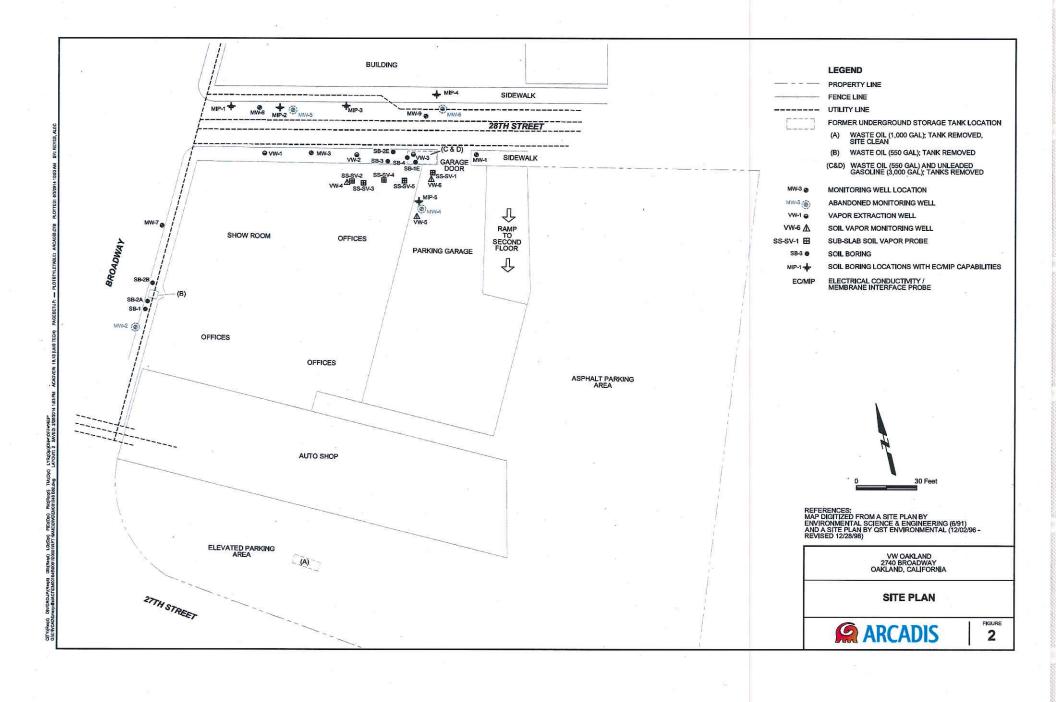
LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA

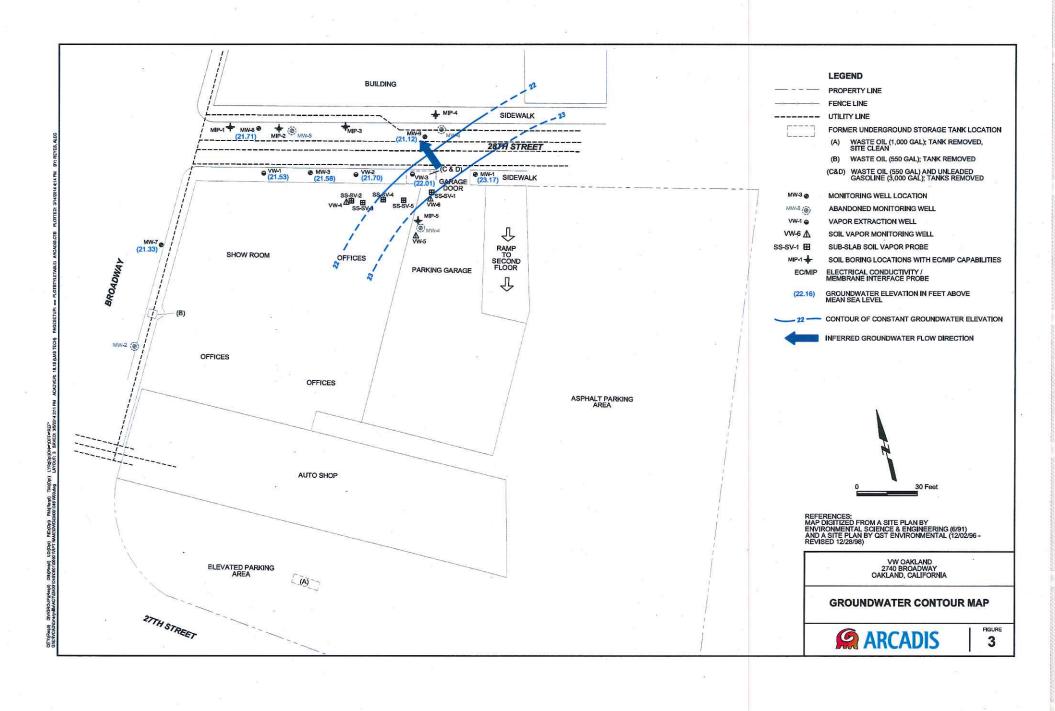
LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed:

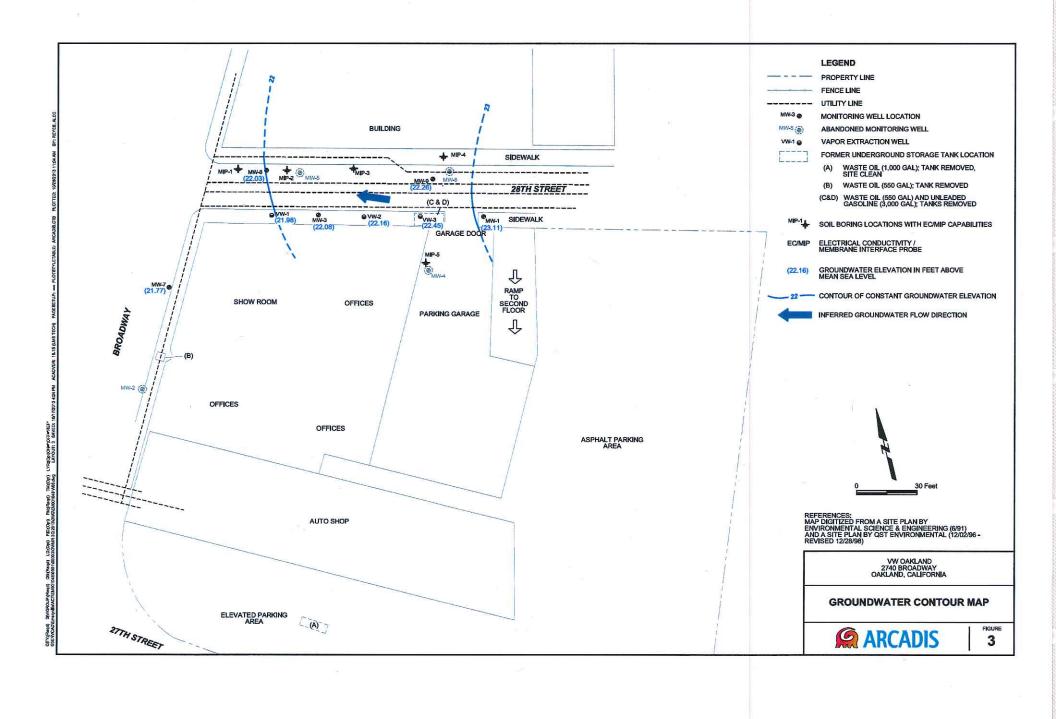
concentrations	of petroleum hydr	ocarbons are le	ss than or equal t	o those in Tab	le 1 below.	- Waxiiiai	
Are maximum o	oncentrations les	s than those in	Yes				
		Resi	idential	Commerc	ial/Industrial	Utility Worker	
Cons	tituent	0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) 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	0.005	2.2	0.005	2.2	2.2	
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14	
Site Maximum	Ethylbenzene	<0.005	14	<0.005	14	14	
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314	
Site Maximum	Naphthalene	(-1,1,1,1)					
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219	
Site Maximum	PAHs						
LTCP Criteria	PAHs	≤0.063	. NA	≤0.68	NA	≤4.5	
	centrations are g an levels from a s			D.			
has a determina petroleum in soi affecting human	centrations are gration been made to will have no signated the alth as a result of mitigation meatrols?	hat the concent nificant risk of a t of controlling o	rations of dversely exposure		; ;	=	

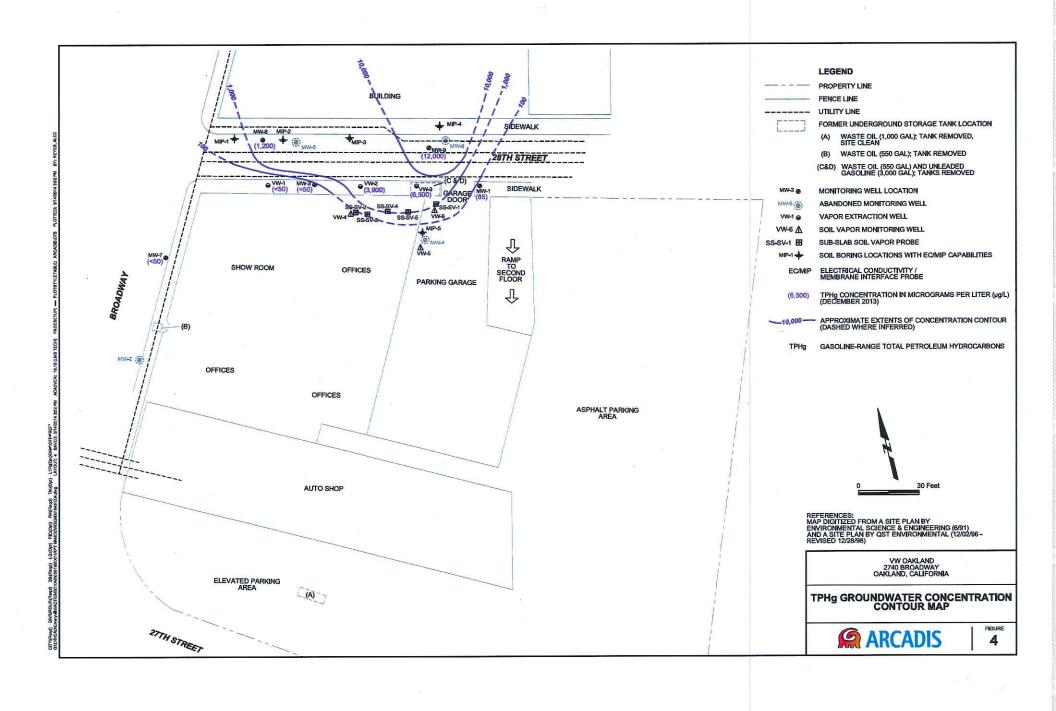


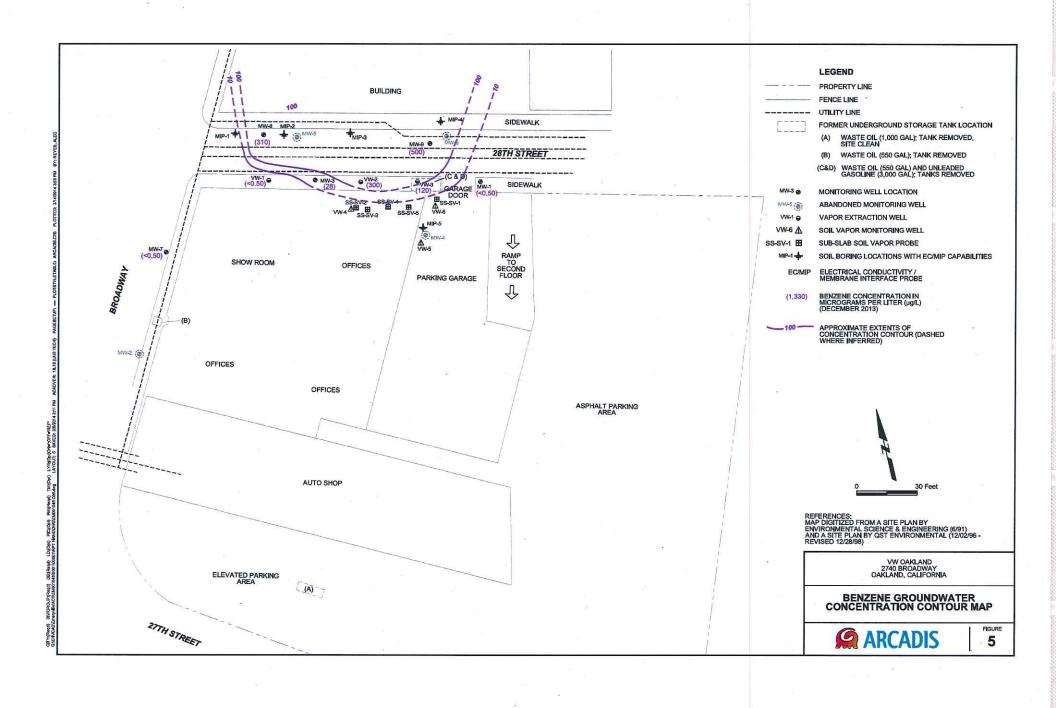
ATTACHMENT 6

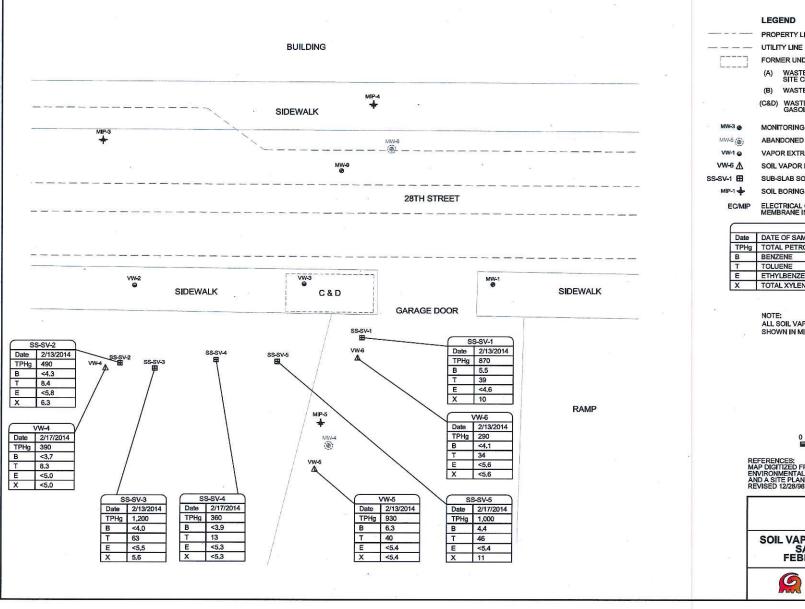












PROPERTY LINE

FORMER UNDERGROUND STORAGE TANK LOCATION

WASTE OIL (1,000 GAL); TANK REMOVED, SITE CLEAN

(B) WASTE OIL (550 GAL); TANK REMOVED

(C&D) WASTE OIL (550 GAL) AND UNLEADED GASOLINE (3,000 GAL); TANKS REMOVED

MONITORING WELL LOCATION

ABANDONED MONITORING WELL

VAPOR EXTRACTION WELL

SOIL VAPOR MONITORING WELL

SUB-SLAB SOIL VAPOR PROBE

SOIL BORING LOCATIONS WITH EC/MIP CAPABILITIES

ELECTRICAL CONDUCTIVITY / MEMBRANE INTERFACE PROBE

	LOCATION ID
Date	DATE OF SAMPLE
TPHg	TOTAL PETROLEUM HYDROCARBONS IN GASOLINE
В	BENZENE
T	TOLUENE
E	ETHYLBENZENE
х	TOTAL XYLENES

ALL SOIL VAPOR ANALYTICAL RESULTS SHOWN IN MICROGRAMS PER CUBIC METER



REFERENCES: MAP DIGITIZED FROM A SITE PLAN BY ENVIRONMENTAL SCIENCE & ENGINEERING (6/91) AND A SITE PLAN BY QST ENVIRONMENTAL (12/02/96 -REVISED 12/28/98)

VW OAKLAND 2740 BROADWAY OAKLAND, CALIFORNIA

SOIL VAPOR ANALYTICAL DATA FOR SAMPLES COLLECTED FEBRUARY 13 AND 17, 2014



FIGURE 6

Table 1

Summary of Soil Analytical Results for Total Petroleum Hydrocarbons and Related Compounds

Volkswagen Automobile Dealership

2740 Broadway Avenue, Oakland, CA

							Petroleun	n Hydrocarboi	ns			
Sample ID	Sample Date	Depth Sampled (feet bgs)	TPHg mg/kg	TPH as Diesel mg/kg	Kerosene mg/kg	Motor Oil mg/kg	Oll and Grease (503E) mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Total Xylenes mg/kg
		Tier I ESL mg/kg	500	110	No Value	500	No Value	0.023	0.044	2.9	3.3	2.3
B-A	8/11/1988	8	<10	_	-	-	<50	1.68=0	<0.3	<0.3	<0.3	<0.3
B-B1	8/11/1988	11.33	56	122	<u> </u>	200	680	T NEW	<0.3	<0.3	<0.3	<0.3
B-B2	8/11/1988	10	840		(HE		2,400	. -	<0.3	<0.3	<0.3	<0.3
B-C1	8/23/1988	13.33	<10	-	_	-		-	1.3	0.9	<0.3	0.3
B-C2	8/23/1988	8.33	<10			_		8-8	<0.3	<0.3	<0.3	<0.3
B-D1	8/23/1988	13.33	2,900	-	No.	_	1,200	9,=0	1.4	7	12	46
B-D2	8/23/1988	7.75	<10		192	-	< 50	19 — 8	2.2	26	14	78
MW-1	1/21/1989	7	<10	<10	-	_	< 20	(100 1)	-	-	-	(me
MW-2	1/21/1989	5	/=			<u> </u>	< 20		-	-	-	
MW-3	1/21/1989	7	((()	-	-	-	35	-		3 - 3	-	-
MW-4	5/14/1991	5	ND	-	ND	ND	ND	-	ND	ND	ND	ND
IVIVV-4	3/14/1331	10	21		ND	ND	ND		0.22	0.70	0.260	1.300
		5	<1.0	-	-	_		5 4-6 .5	<0.005	< 0.005	<0.005	<0.005
MW-5	10/14/1991	10	<1.0		8 <u>22</u>	-		-	< 0.005	< 0.005	<0.005	< 0.005
WW-5	10/14/1001	15	<1.0	-		_	-	(<0.005	< 0.005	<0.005	< 0.005
(8)		18	2.0	122	AME:		-	-	0.22	<0.010	0.028	0.022
1000000000		5	<1.0	- "	-	-	- 1	7-0	<0.005	<0.005	<0.005	<0.005
MW-6	10/14/1991	10	<1.0		1	_		_	<0.005	<0.005	<0.005	<0.005
	¥1	15	<1.0		-		_	-	<0.005	< 0.005	<0.005	< 0.005
SB-2A	5/14/1991	10	-	ND	ND	## A T	_	-	-	137	-	=
OD-ZA	3/14/1331	15	: 2	ND	ND			322	_	(A=)	-	=
SB-2B	5/14/1991	10	p=s	ND	ND	==	-	5 	-			-
OD ZD	G 1-4 100 1	15	-	ND	ND			(<u>=</u>	ш.	1922		1 <u>1</u>
A4244 (1997)		5	2.3	ND	ND	ND		()	0.0052	0.0060	ND	0.021
SB-3	5/14/1991	10	740	ND	ND	ND	_	1	1.2	30	9.4	42
		15	5.9	ND	ND	ND		-	8.1	0.48	0.099	0.38
SB-4	5/14/1991	5	ND	ND	ND	ND	_	925	ND	ND	ND	ND
CONTRACTOR	5/14/1991	15	13	ND	ND	14	-	-	0.61	1.1	0.17	0.84
SB-1E	8/5/1999	13.8-14.8	84			-			0.94	4.5	. 1.2	7.4
		14.8-15.8	2,600	-	-	-	-	-	13	180	37	160
SB-2E	8/5/1999	6.8-7.8	<1.0	_	-	-8	_	-	<0.005	<0.005	<0.005	<0.005
JUZE	01311333	9.5-10.5	<1.0		120	-	-		<0.005	<0.005	<0.005	<0.005
	06/13/13	5.0 - 5.5	<1.1	1.9 Y	-	9.1	19-2 3	<0.025	<0.0063	<0.0063	<0.0063	<0.0063
MW-8	06/13/13	10.0 - 10.5	<1.4	<1.3	-	<6.3	0 - 0	<0.026	<0.0064	<0.0064	<0.0064	< 0.0064
	06/13/13	15.0 - 15.5	<1.3	<1.3	_	<6.4		<0.028	<0.0069	< 0.0069	<0.0069	< 0.0069
	06/13/13	5.0 - 5.5	<1.2	6.7 Y	-	49	9-8	< 0.022	<0.0055	<0.0055	<0.0055	<0.0055
MW-9	06/13/13	10.0 - 10.5	2.2	<1.3	-	<6.3		<0.023	<0.0061	· <0.0057	0.016	0.035
10	06/13/13	15.0 - 15.5	<1.3	<1.2	-	<6.1	_	<0.027	<0.0067	<0.0067	<0.0067	<0.0067

Notes:

feet bgs = Feet below ground surface

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

mg/kg = Milligrams per kilogram

< = Not detected at detection or reporting limit indicated

ND = Not detected; no detection or reporting limit provided in source report

- = Not analyzed

Y = Laboratory reports the sample exhibits chromatographic pattern which does not resemble standard

Bolded values are above the Tier I ESL

Tier I ESL = Tier I Environmental Screening Levels (ESLs) for shallow soils of less than 3 meters below ground surface and commercial land use.

While some samples were collected at depths greater than 3 meters below ground surface, these values were used for a conservative comparison.

ATTACHMENT 7

Sample ID	Sample Date	Depth Sampled															
	Sample Date	(feet bgs)	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethene	1,2- Dichloroethene	2-Butanone	Acetone	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Tetra chloroethene	trans-1,2- Dichloroethene	trans-1,3- Dichloropropene	Trichloroethene	Vinyl chlorid
B-A	8/11/1988	8	< 0.005	< 0.005	< 0.005	< 0.005	<0.1	<0.1	<0.01	1-1	< 0.005	<0.01	< 0.005	< 0.005	< 0.005	< 0.005	<0.01
B-81	8/11/1988	11.33	< 0.005	< 0.005	< 0.005	< 0.005	<0.1	<0.1	<0.01	-	< 0.005	<0.01	< 0.005	< 0.005	< 0.005	< 0.005	<0.01
B-82	8/11/1988	10	< 0.005	< 0.005	< 0.005	< 0.005	<0.1	<0.1	<0.01	_	< 0.005	<0.01	< 0.005	< 0.005	< 0.005	< 0.005	<0.01
B-C1	8/23/1988	13.33	_	-	-	-	_	_	-	_	-		-	_	-	-	-
B-C2	8/23/1988	8.33			-	-	-	_	-		-	-	-	_	-	_	_
B-D1	8/23/1988	13.33	<0.2	<0.2	<0.2	<0.2	-		_	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
B-D2	8/23/1988	7.75	<0.2	<0.2	<0.2	<0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-1	1/21/1989	7					-						_				_
MW-2	1/21/1989	5	-	-			-			- 12	_	_	_			-	
MW-3	1/21/1989	7	-		-		-	-	-	72	_	=	74		_	_	_
	5/14/1991	5	· · · · · · · · · · · · · · · · · · ·	-			-	-	_	19 <u></u>	-	-	123	-	-	40	
MW-4	3/14/1991	10	-	-	-	-	-	-	-	-	-					<u>=</u> 8	72
MAS-4	5/23/1991	5	-	-	-		-	_);= <u></u>		_	7-1	-			-
1	5/24/1991	10	-	-	-	747			_	77	_	_	254	-		-	_
		5	_	-	-	1-1	-		-	-	-	7 -	77-	-	-		-
MW-5		10	_	_	-	-		-		-	-	_	13-	-		4	-
MWV-5	10/14/1991	15		_		-	-		_	-	-	-	_	-	_		-
		18	-		-	-	_	_	-	-	-	-	-	-	_	-	_
		5				-			-	-	-			-	-	-	
MW-6	10/14/1991	10	_	-			_		-				() 	-	-	-	
020000000		15		-	-	-		_	-	_	-		-	-		-	
	AND DESCRIPTION OF THE PARTY OF	13.8-14.8	_	-	-	_	_		-		-		-	-			
SB-1E	8/5/1999	14.8-15.8	_	-	-	-	-		—	_	-	-	_	-		-	
		10	74		-		= 1		-		_	-	-	-			
SB-2A	5/14/1991	15	ND	ND	ND					ND	ND	ND	-	_	ND	ND	ND
		10	-		-	1144					-	-	_	-			-
SB-2B	5/14/1991	15	0.5	<u>—</u> ;		824		120	_	122	120	- 2					
1000000	2,032,00	6.8-7.8	_	_	¥2.5	25-	-		-	_			_	20 1			
SB-2E	8/5/1999	9.5-10.5	=		_	-		-		- 2	-	25	_	-	_	<u> = = = 1</u>	922
		5	-	-		-					-						1120
SB-3	5/14/1991	10	ND	ND	ND	1000	-	-	_	ND	ND	ND	-	40	ND	ND	ND
		15	-	-	-	-	-	-	-				_				
	5/14/1991	5	-	-	-	12 -	-				-		-	_	-	-	144
	5/14/1991	15	-		-	-	-	-	-	-			-	-	-	-	
SB-4	5/21/1991	5			-0:	-	_	-	-								_
	5/22/1991	15	_		-	-	_		-			-	-				_
	06/13/13	5.0 - 5.5	_			-			-			_	-				_
MW-8	06/13/13	10.0 - 10.5	-	_	_		-		-								
MANAGED ST	06/13/13	15.0 - 15.5	_	_		-	-						-	-			
	06/13/13	5.0 - 5.5							 								=
MW-9	06/13/13	10.0 - 10.5											-				=
Waster -	06/13/13	15.0 - 15.5	_				=		- -	-1-							

Noten: feet bgs = Feet below ground surface mg/kg = Milligrams per kilogram < = Not detected at detection or reporting limit indicated ND = Not detected; no detection or reporting limit provided in source report

-= Not analyzed

Historical Soil Analytical Results Metals and Other Analyses Broadway Volkswagen 2470 Broadway, Oakland, CA

			Metals (mg/kg)												
Sample ID	Sample Date	Depth Sampled (feet bgs)	Cadmium	Chromium	Cyanide	Lead (total)	Nickel	Zinc							
		5			· ·										
NAVA/ E	40/44/4004	10	< 0.25	39.8		7.5	60.0	53.9							
MW-5	10/14/1991	15	<u> </u>	. =		_	_								
		18	_	-	F-Activity			_							
		5						_							
SB-3	5/14/1991	10	0.27	27.4	ND	5	42.5	42.5							
		15													

Notes:

feet bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

< = Not detected at detection or reporting limit indicated

ND = Not detected; no detection or reporting limit provided in source report

-- = Not analyzed

Table 4 Summary of Soil Vapor Analytical Results

Volkswagen Automobile Dealership 2740 Broadway Avenue, Oakland, CA

Well Number	Sample Date	TPHg (C7-C12) µg/m³	Benzene µg/m³	Toluene µg/m³	Ethyl benzene µg/m³	Total Xylenes µg/m³	Naphthalene	TCE µg/m³	cDCE µg/m³	1,2- Dichloroethane µg/m³	trans-1,2- Dichloroethene µg/m³	Vinyl Chloride µg/m³	Oxygen (%)	Helium (%)
Tier I ESL Con	nmercial (µg/m³)	2,500,000	420	1,300,000	4,900	440,000	360	3,000	31,000	580	260,000	160	No Value	No Value
LTC Commercial S	Scenario 4b (µg/m³)	No Value	280,000	No Value	3,600,000	No Value	310,000	No Value	No Value	No Value	No Value	No Value	No Value	No Value
VW-4	02/17/14	390	<3.7	8.3	<5.0	<5.0	<24	<6.2	<4.6	<4.7	<4.6	<3.0	22	<0.12
VW-5	02/13/14	930	6.3	40	<5.4	<5.4	<26	<6.7	<4.9	<5.0	<4.9	<3.2	21	<0.12
VW-6	02/13/14	290	<4.1	34	<5.6	<5.6	<27	<6.9	<5.1	<5.2	<5.1	<3.3	18	<0.13
SS-SV-1	02/13/14	870	5.5	39	<4.6	10	<22	<5.7	<4.2	<4.3	<4.2	<2.7	22	<0.10
SS-SV-2	02/13/14	490	<4.3	8.4	<5.8	6.3	<28	<7.2	<5.3	<5.4	<5.3	<3.4	22	<0.13
SS-SV-3	02/13/14	1,200	<4.0	63	<5.5	5.6	<26	<6.8	<5.0	<5.1	<5.0	<3.2	21	<0.13
SS-SV-4	02/17/14	360	<3.9	13	<5.3	<5.3	<26	<6.6	<4.8	<5.0	<4.8	<3.1	21	<0.12
SS-SV-5	02/17/14	1,000	4.4	46	<5.4	11	<26	<6.7	<5.0	<5.1	<5.0	<3.2	22	<0.12

Notes:

Tier I ESL = Tier I Environmental Screening Levels (ESLs) for soil gas screening levels for evaluation of potential vapor intrusion for commercial/industrial facility LTC Commercial Scenario 4b = Low-Threat Closure (LTC) Policy Petroleum Vapor Intrusion to Indoor Air Scenario 4b (direct Measurement of Soil Gas Concentrations - With Bioattenuation Zone) for commercial land use

TPHg = Total Petroleum Hydrocarbons as gasoline

TCE = Trichloroethene

cDCE = cis-1,2-Dichloroethene

μg/m³ = Micrograms per cubic meter air

< = Not detected at or above the laboratory reporting limit noted

Table 1
Groundwater Elevation Data
Volkswagen Automobile Dealership
2740 Broadway Avenue
Oakland, California

Well	Well Casing Elevation (1)(2)	Screen Interval feet below ground surface	Well Diameter (inches)	Total Well Depth (feet)	Depth to Product ⁽³⁾ 26-Sep-13	Depth to Water ⁽³⁾ 26-Sep-13	Groundwater Elevation ⁽²⁾ 26-Sep-13
MW-1	31.28	5 to 20	2	19.20	NM	8.17	23.11
MW-3	31.68	5 to 20	2	18.60	NM	9.60	22.08
MW-7	31.53	20 to 25	4	23.50	NM	9.76	21.77
8-WM	32.70	16 to 20	2	20.04	NM	10.67	22.03
MW-9	31.85	11 to 15	2	14.94	NM	9.59	22.26
VW-1	31.67	14.5 to 19.5	4	18.55	NM	9.69	21.98
VW-2	31.71	12 to 16.5	4	16.93	NM	9.55	22.16
VW-3	31.11	5 to 15.5	4	NM	NM	8.66	22.45

Notes:

- (1) Survey conducted by PLS Surveys Inc. on July 1, 2013. April 21 and field measurements.
- (2) In reference to feet above mean sea level.
- (3) In feet below top of casing (approximately at ground surface).

NM = Not measured

Table 3
Summary of Groundwater Analytical Results
Volkswagen Automobile Dealership
2740 Broadway Avenue, Oakland, CA

Well Number	Sample Date	TPHg µg/L (C7-C12)	TPHd µg/L (C10 - C24)	TPHmo µg/L (C24-C36)	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TCE µg/L	cDCE µg/L	1,1- Dichlorothene µg/L	1,2- Dichloroethane µg/L	1,3,5- Trimethyl benzene µg/L	1,2,4- Trimethyl benzene µg/L	n-Butyl benzene µg/L	Naphthalene µg/L	trans-1,2- Dichloroethene µg/L	TDS µg/L
Tier	I ESL µg/L	100	100	100	1	40	30	20	5	5	6	5	0.5	na	na	na	17	na	na
VI ESL (F	ine-Coarse Mix) µg/L	No Value	No Value	No Value	270	Sample Soil Gas	3,100	Sample Soil Gas	100,000	1,300	No Value	130,000	1,000	No Value	No Value	No Value	1,600	120,000	No Value
MW-1	01/21/89	ND	na	na	53	13	1.4	8.2	1000	na	na	9700	na	na	na	na	na		na
	05/13/91	130	na	na	ND	ND	ND	ND	-	58	na	-	ND	na	na	na	na		na
	10/18/91	ND	na	na	ND	ND	ND	ND		120	na	· ·	ND	na	na	na	na		na
	10/27/91	ND	na	na	ND	ND	ND	ND		11	na	8 577 .	ND	na	na	na	na	(2000)	na
	07/13/93	ND	na	na	ND	ND	ND	ND		6.4	na	- 	ND	na	na	na	na	A 57.00 .	na
	06/27/96	ND	na	na	ND	ND	ND	ND	=	na	na		na	na	na	na	na		na
	09/19/96	ND	na	na	ND	ND	ND	ND	-	na	na	9 7-	na	na	na	na	na		na
	12/13/96	ND	na	na	ND	ND	ND	ND	_	na	na	17 Table	na	na	na	na	na		na
	10/07/97	ND	na	na	ND	ND	ND	ND	ND	na	na	10 <u></u>	na	na	na	na	na		na
	08/03/99	ND	na	na	ND	ND	ND	ND	ND	na	na		na	na	na	na	na		na
	06/08/12	<50	290 Y	<300	<0.5	<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<2.0		410
	06/19/13	<50	290 Y	<300	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	na
	09/26/13	<50	120 Y	<310	<0.5	<0.5	<0.5	<0.5	na	na	na	na	na	na	na	na	na	na	na
	12/10/13	85 Z	220 Y	<300	<0.5	<0.5	<0.5	<0.5	0.7	52	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	na
MW-2*	01/21/89	ND	na	na	ND	ND	ND	ND	-	na	na	_	na	na	na	na	na	-	na
MW-3	01/21/89	32,000	na	na	9,600	8,200	1,800	6,200	_	na	na	1	na	na	na	na	na		na
	05/13/91	81,000	na	na	7,800	12,000	1,200	4,000		14	na	i 	380	na	na	na	na		na
	10/18/91	73,000	па	na	9,400	8,600	750	3,300	(7777)	14	na		8.3	na	na	na	na		na
	10/27/91	37000	na	na	7,100	4,900	970	3,500		ND	na	<u></u>	170	na	na	na	na		na
	07/13/93	41,000	na	na	8,100	6,200	8,100	4,400		14	na		150	na	na	na	na		na
	06/27/96	370	na	na	120	75	6.2	47		na	na		na	na	na	na	na		na
	09/19/96	15,000	па	na	6,000	2,700	450	2,180		na	na		na	na	na	na	na		na
	12/13/96	ND -	na	na	30	10	2	7.4		na	na		na	na	na	na	na		na
Dup	12/13/96	ND	na	na	21	7	1	4.9		na	na		na	na	na	na	na		na
	10/07/97	ND	na	na	ND	ND	ND	ND	ND	na	na		na	na	na	na	na		na
Dup	10/07/97	ND	na	na	21	7	1	4.9	5.7	na	na		na	na	na	na	na		na
	08/03/99	21,000	na	na	5,500	2,300	470	990	 :	na	na		na	na	na	na	na		na
	06/08/12	<50	56	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<2.0		310
	06/19/13	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	na
	09/26/13	<50	<51	<310	2.6	<0.5	<0.5	<0.5	na	na	na	na	na	na	na	na	na	na	па
	12/10/13	<50	<51	<300	28	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<2.0	<0.5	na
MW-4*	01/21/89		192-01	10 000 11	National Control	-						1200	<u></u>	2005	-	11			
	05/13/91	13,000	-0	() ()	160	690	250	1,100		490		-	ND		- 1		_		
- 1	10/18/91	ND	-	7 7	11	11	ND	15		450		_	3.9	_	_	::	-		
- 1	10/27/91	180): :		6.4	2.8	1.2	6.2		520	-	-	ND	-		:	-		
- 1	07/13/93	320	-		36	4.4	1.8	5.3	:	550		:	ND		:				s _

Table 3
Summary of Groundwater Analytical Results
Volkswagen Automobile Dealership
2740 Broadway Avenue, Oakland, CA

Well Number	Sample Date	TPHg µg/L (C7-C12)	TPHd µg/L (C10 - C24)	TPHmo µg/L (C24-C36)	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TCE µg/L	cDCE µg/L	1,1- Dichlorothene µg/L	1,2- Dichloroethane µg/L	1,3,5- Trimethyl benzene µg/L	1,2,4- Trimethyl benzene µg/L	n-Butyl benzene µg/L	Naphthalene µg/L	trans-1,2- Dichloroethene µg/L	TDS µg/L
Tier	I ESL µg/L	100	100	100	1	40	30	20	5	5	6	5	0.5	na	na	na	17	na	na
MW-5*	01/21/89											-						()(
	05/13/91									-))				-
	10/18/91	16,000	A -	-	3,500	530	670	1,100		120	-		32						
	10/27/91	87	()	-	ND	ND	ND	ND		410	ma a	7775	ND	8 1000	2270 2		1		
	07/13/93	90	7 555 5		ND	ND	ND	ND	1.000	530		####.E	ND	1,000					
MW-6*	01/21/89		· *		_		_	S-L			1129		_	944					
	05/13/91		-								1		(444)	7-4-5	3004				
	10/18/91	28,000	-	_	640	2,700	1,100	4,500		230	(60				3 n		
	10/27/91	1,300			48	130	55	230		2,000	1.000	_	ND			_			
	07/13/93	1,100			5.1	30	30	230		2,100			ND						
	and the same of the same of the	ST ()	_		SAMO	1000035	Electric D	\$2.60 CM		-,								_	- 2
MW-7	06/27/96	ND	na	na	ND	ND	ND	ND	ND	na	na	-	na	na	na	na	na	-	na
	09/19/96	67	na	na	ND	ND	ND	ND.	ND	na	na	1/1/255	na .	na	na	na	na	1000	na
	12/13/96	ND	na	na	ND	ND	ND	ND	ND	na	na	2228	na	na	na	na	na		na
	10/07/97	ND	na	na	ND	ND 0.5	ND	ND	ND	na	na		na	na	na	na	na	(100	na
	06/08/12	<50 <50	<50 =50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	4.6	0.5	-0.5	1.2	<0.5	<0.5	<0.5	<2.0		290
Dup	06/19/13 06/19/13	<50 <50	<50 <50	<300 <300	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	3.2 <0.5	0.3 J	<0.5 <0.5	0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<2.0 <2.0	<0.5	na
Dup	09/26/13	<50	<49	<290	3.1 <0.5			<0.5	10001000	200000	0.3 J		0.5	1007755	<0.5	A CONTRACT		<0.5	na
Dup	09/26/13	<50	<50	<300	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	na na	na na	na na	na na	na na	na na	na na	na na	na na	na na	na na
Dup	12/10/13	<50	<51	<300	<0.5	<0.5	<0.5	<0.5	<0.5	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	na
Dup	12/10/13	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	na
							-0.0				-0.0		0.0			-0.0	-2.0		III
MW-8	06/19/13	1,800 Y	650	<300	360	2.3 J	16	2.2 J	1.3 J	<2.5	19	<2.5	2.3 J	<2.5	<2.5	<2.5	<10	<2.5	na
	09/26/13	890	370 Y	<290	330	3.3	66	8.3	na	na	na	na	na	na	na	na	na	na	па
	12/10/13	1,200	550	<340	310	5.7	88	14.0	5.0	4.3	120	<2.0	2.7	<2.0	<2.0	7.0	<8.0	<2.0	na
MW-9	06/19/13	5,400	1,100	<300	1,500	19	110	37	<8.3	13	14	<8.3	<8.3	<8.3	10	<8.3	42	<8.3	na
SIMILAGO DES	09/26/13	8,300	2,300	<310	650	<6.3	690	610	па	па	na	na	na	na	na	na	na	па	na
	12/10/13	12,000	1,900	<300	500	<6.3	890	1,209	<6.3	<6.3	7.5	<6.3	<6.3	210	750	<6.3	240	<6.3	na
10N 4	00100140	-50	-60	-200	-0.5	-0.5	-0 F	-0.5	-0.5	-0.5	-0.5	6	-0.5	-0.5	-0.5	-0.5	-0.0	13 200 70.0	040
VW-1 Dup	06/08/12 06/08/12	<50 <50	<50 <50	<300 <300	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<2.0		210
Dup	06/19/13	<50 <50	70 Y	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<2.0 <2.0	 <0.5	210
	09/26/13	<50	<52	<310	<0.5	<0.5	<0.5	<0.5	na	na	na	na	na	na	na	na	na	na	na na
	12/10/13	<50	<51	<310	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	na
	VOLUME AND DESCRIPTIONS		1010042	0.0000000	7550.XX	30000000	restand	COOKS	0000000	0.000000	~~~	-0.0	07/03/08/4	0.5560.			0010000	-0.0	11700
VW-2	06/08/12	36,000	3,400 Y	<300	1,800	3,000	1,200	4,900	<25	<25	<25	8 11- 2 U	<25	240	960	70	480	_	370
	06/19/13	4,300	830	<300	270	58	280	430	<1.7	<1.7	<1.7	<1.7	1.7	16	260	<1.7	22 J	<1.7	na
	09/26/13	850	240 Y	<310	26	38	56	118	na	na	na	na	na	na	na	na	na	na	na
	12/10/13	3,900	640	<310	300	260	210	490	<0.5	<0.5	0.5	<0.5	1.3	18	110	<0.5	37	<0.5	na
VW-3	06/08/12	120,000 Y	9,300	2,000	54	<20	84	640	<20	<20	<20	40 (<u></u>)	<20	650	2,000	83	240		370
	06/19/13	13,000	6,200	650	72	<7.1	16	119.7	<7.1	<7.1	<7.1	<7.1	<7.1	300	1,000	58	70	<7.1	na
	09/26/13	6,000	2,900	370	100	<1.3	<1.3	43.1	na	na	na	na	na	na	na	na	na	na	na
	12/10/13	6,500	3,200	730	120	1.7	11	49.6	<1.3	<1.3	<1.3	<1.3	<1.3	170	410	64	81	<1.3	na
MIP-1	04/05/13	630 Y	590	<300	52	1.0	0.5 J	0.7	1.6	18	40	0.3 J	2.8	<0.5	<0.5	<0.5	<2.0	0.3 J	
IVIII''- I	0410JI 13	03U T	J3U	~00	JZ	1.0	0.00	0.7	1.0	15	40	0.5 J	2.8	~∪,5	~0.0	~0.0	~2.0	U.3 J	

Table 3

Summary of Groundwater Analytical Results

Volkswagen Automobile Dealership 2740 Broadway Avenue, Oakland, CA

Well Number	Sample Date	TPHg μg/L (C7-C12)	TPHd µg/L (C10 - C24)	TPHmo µg/L (C24-C36)	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TCE µg/L	cDCE µg/L	1,1- Dichlorothene µg/L	1,2- Dichloroethane µg/L	1,3,5- Trimethyl benzene µg/L	1,2,4- Trimethyl benzene µg/L	n-Butyl benzene µg/L	Naphthalene µg/L	trans-1,2- Dichloroethene µg/L	TDS µg/L
Tier	I ESL µg/L	100	100	100	1	40	30	20	5	5	6	5	0.5	na	na	na	17	na	na
MIP-2	04/05/13	510 Y	450	<300	140	1.1	<1.0	0.7 J	<1.0	42	4.4	<1.0	1.5	<1.0	<1.0	<1.0	<4.0	<1.0	
MIP-3	04/05/13	1,800	600	<300	270	2.1	120	135	1.2 J	270	17	<1.7	1.1 J	<1.7	1.5 J	3.0	17	<1.7	
MIP-4	04/05/13	13,000	4,300	320	15	5.7	510	1,490	<5.0	960	11	<5.0	<5.0	290	850	57	150	<5.0	
Dup	04/05/13	14,000	1,700	<300	29	8.5	670	1,970	<6.3	750	7.0	<6.3	<6.3	340	1,000	73	200	<6.3	
MIP-5	04/05/13	4,200	1,000	<300	9.0	18	46	189	<1.3	170	10	<1.3	1.2 J	58	170	19	18	<1.3	

Notes:

Tier I ESL Tier I Environmental Screening Levels (ESLs) for shallow soils of less than 3 meters below ground surface and groundwater that is a current or potential source of drinking water.

TPHg Total Petroleum Hydrocarbons as gasoline

TPHd Total Petroleum Hydrocarbons as diesel

TPHmo Total Petroleum Hydrocarbons as motor oil

MTBE Methyl tertiary butyl ether

cDCE cis-1,2-Dichloroethene

EDC 1,2-Dichloroethane (ethylene dichloride)

TCE Trichloroethene

TDS Total dissolved solids

μg/L micrograms per liter

ND Not detected at or above detection limits (historical limits unknown).

Not analyzed

na historical data not available

Dup Duplicate sample

* Wells abandoned

< Not detected at or above the laboratory detection limit noted.

Y Laboratory reports the sample exhibits chromatographic pattern which does not resemble standard.

J Laboratory reports estimated value.

Z Sample exhibits unknown single peak or peaks

VI ESL Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion for Fine to Coarse Media for Commercial/Industrial Land Use

Bolded values are above the Tier I ESL

Italicized values are above the VI ESL