

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

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

April 23, 2015

Ms. Shirley Thompson
Thompson Edward C. & Shirley E. Trust
1155 Hopkins Street
Berkeley, CA 94702
(Sent via E-mail to: sthmp63@comcast.net)

Subject: Case Closure for Fuel Leak Case No. RO0002933 and GeoTracker Global ID T0600158621, Thompson Property, 1409-1417 12th Street, Oakland, CA 94607

Dear Ms. Shirley Thompson:

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>).

Due to residual soil and groundwater contamination, the site was closed with Site Management Requirements that limit future land use to the current industrial / commercial land use. Site Management Requirements are further described in Additional Information of the attached Case Closure Summary.

If you have any questions, please call Keith Nowell at (510) 567-6764. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Dilan Roe".

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

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

Cc w/enc.:

Susan Hugo, Alameda County Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502
(Sent via E-mail to: susan.hugo@acgov.org)

Alameda County Public Works Agency, Building Inspection Division, 399 Elmhurst Street, Room 141,
Hayward, CA 94544

Sandra Rivera, Alameda County Community Development Agency, Planning Dept., 224 West Winton Ave.,
Room 111, Hayward, CA 94544-1215 (Sent via E-mail to: sandra.rivera@acgov.org)

Ms. Shirley Thompson
RO0002933
April 23, 2015, Page 2

Mark J. Arniola, City of Oakland Public Works, 250 Frank H. Ogawa Plaza, Suite 5301, Oakland, CA 94612
(Sent via E-mail to: marniola@oaklandnet.com)

Joseph Cotton, Impact Environmental, 39120 Argonaut Way, #223, Fremont, CA (Sent via E-mail to:
jac21462@aol.com)

Case Worker (Sent via E-mail to: keith.nowell@acgov.org)
e-File, GeoTracker

UST Case Closure Summary Form

Agency Information

Date: April 21, 2015

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6764
Staff Person: Keith Nowell, P.G. C.H.G.	Title: Hazardous Materials Specialist

Case Information

Facility Name: Thompson Property		
Facility Address: 1409-1417 12 th Street, Oakland, CA 94607		
RB LUSTIS Case No: N/A	Local Case No.: ----	LOP Case No.: RO0002933
URF Filing Date: December 6, 2006	GeoTracker Global ID: T0600158621	
APN: 4-63-6-1 Formerly 4-63-5 and 4-63-6	Current Land Use: Vacant Lot (APN Use Code 4000: Vacant Industrial Land)	
Responsible Party(s):	Address:	Phone:
Thompson Edward C. & Shirley E. Trust Attn: Shirley Thompson	1155 Hopkins Street, Berkeley, CA 94702-1359	510-504-8948

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
	Unknown	Gasoline	Unknown – suspected removed based on geophysical survey	Unknown

Note: Historical aerial photographs and Sanborn Fire Maps indicate a gasoline station existed from circa 1957 to pre-circa 1970. The same maps and photographs indicate the potential existence of up to four USTs or ASTs located in the southeast corner of the current property configuration. The Oakland Fire Department has no formal UST removal reports on file. As indicated in the August 25, 1999 subsurface investigation report by Blymyer Engineers, Inc., East Bay Asian Local Development Corporation (EBALDC) conducted a magnetometer survey which revealed no magnetic anomalies indicative of buried USTs.

Conceptual Site Model (Attachment 1, 2 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, 2 pages)

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 2 pages)

Site Maps (Attachment 6, 29 pages)

Analytical Data (Attachment 7, 31 pages)

UST Case Closure Summary Form

Additional Information:

Site Management Requirements:

DIRECT CONTACT ISSUE – SITE MEETS COMMERCIAL BUT NOT RESIDENTIAL

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). Soil vapor is evaluated as low-risk within the upper five-foot bio-attenuation zone. However, residual soil contamination exists below the five (5) foot zone. Therefore, construction of subsurface structures will require further soil vapor evaluation. Under the current land use as a vacant, unpaved parcel zoned for commercial/light industrial land use, within an industrial / commercial / residential area, case closure is granted for future industrial / commercial land use.

If a change in land use to any residential, or other 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. ACEH will re-evaluate the case upon receipt of approved development/construction plans.

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.

Due to the presence of contaminated groundwater underlying the site, future installation of private, domestic wells is prohibited.

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: October 20, 2014

RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist
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Local Agency Representative

Prepared by: Keith Nowell, P.G., C.HG.	Title: Hazardous Materials Specialist
Signature: <i>Keith Nowell</i>	Date: <i>4/23/2015</i>
Approved by: Dilan Roe, P.E.	Title: LOP and SCP Program Manager
Signature: <i>Dilan Roe</i>	Date: <i>4/23/2015</i>

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

CSM Report

[GEOTRACKER HOME](#) | [MANAGE PROJECTS](#) | [REPORTS](#) | [SEARCH](#) | [LOGOUT](#)

THOMPSON PROPERTY (T0600158621) - [MAP THIS SITE](#)

OPEN - ELIGIBLE FOR CLOSURE

1409-1417 12TH STREET
OAKLAND, CA 94607
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)
[PUBLIC WEBPAGE](#)

[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)

CLEANUP OVERSIGHT AGENCIES

ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0002933
CASEWORKER: [KEITH NOWELL](#) - SUPERVISOR: DILAN ROE
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: NA
CASEWORKER: [Cherie McCaulou](#) - SUPERVISOR: Cheryl L. Prowell

CUF Claim #: B0038 CUF Priority Assigned: CUF Amount Paid: [\\$1,186,977](#)

CR Site ID #: NOT SPECIFIED

THIS PROJECT WAS LAST MODIFIED BY [KEITH NOWELL](#) ON 4/20/2015 11:51:51 AM - [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 SCUFII)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	REVIEW NUM	REVIEWER	FIVE YEAR REVIEW INFORMATION		
									FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE
B0038		SHIRLEY E. THOMPSON	1409-1417 12TH STREET HOPKINS OAKLAND, CA 94607-2003	\$1,462,667	8						

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

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
THOMPSON PROPERTY (Global ID: T0600158621) 1409-1417 12TH STREET OAKLAND, CA 94607	Open - Eligible for Closure	6/30/2014	9/28/2006	9	ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0002933 CASEWORKER: KEITH NOWELL - SUPERVISOR: DILAN ROE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: NA CASEWORKER: Cherie McCaulou - SUPERVISOR: Cheryl L. Prowell

STAFF NOTES (INTERNAL)

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 Alameda County Environmental Health website at <https://ehgis.acgov.org/dehpublic/dehpublic.jsp>.

SITE HISTORY

A retail gasoline station operated at the site from the mid-1950s to circa 1969. The Thompsons purchased the property from Burmah Oil and Gas in 1973. The property was a vacant lot at the time of the purchase. In August 1999 a subsurface investigation was completed in advance of a potential property transaction, and revealed the presence of significantly elevated levels of hydrocarbon contamination in soil and groundwater beneath the site. However, no evidence of USTs were encountered during the investigation and there is no record of the removal of the USTs. A magnetometer survey did not reveal the presence of USTs. Site characterization performed in 2007 and 2008 confirmed the presence of elevated levels of contamination. In November 2008 a DPE pilot test was completed and results from the pilot test indicate that DPE is feasible and readily implemented. DPE operated January 18, 2010 through July 23, 2010 and May 5, 2011 through October 31, 2011.

Confirmation sampling documented in report dated March 19, 2013 revealed elevated residual concentrations of TPHg and EX. ACEH requested supplemental samples be collected due to inconsistencies with the reported data. The second set of confirmation soil sample data, presented in a report dated January 3, 2014, indicated the site met the LTCP closure requirements.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
SHIRLEY THOMPSON	THOMPSON EDWARD C & SHIRLEY E TRUST	1155 HOPKINS ST	BERKELEY	

CLEANUP ACTION INFO

ACTION TYPE	BEGIN DATE	END DATE	PHASE	CONTAMINANT MASS REMOVED	DESCRIPTION
DUAL PHASE EXTRACTION	1/13/2010	11/30/2011	Soil Vapor, Water		
IN SITU PHYSICAL/CHEMICAL TREATMENT (OTHER THAN SVE)	10/13/2008	10/17/2008	Water		DPE PILOT TEST

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
Gasoline		GW - Municipal and Domestic Supply		9/28/2006	Other Means	0
FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE
NO	NO	EBMUD	4/1/2015	4/1/2015	6/18/2014	MOST RECENT CLOSURE REQUEST 4/1/2015

CDPH WELLS WITHIN 1500 FEET OF THIS SITE

NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN 004 006300601	GW BASIN NAME Santa Clara Valley - East Bay Plain (2-9.04)	WATERSHED NAME South Bay - East Bay Cities (204.20)
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](#)

<u>FIELD PT NAME</u>	<u>DATE</u>	<u>TPHg</u>	<u>BENZENE</u>	<u>TOLUENE</u>	<u>ETHYL-BENZENE</u>	<u>XYLENES</u>	<u>MTBE</u>	<u>TBA</u>
BTW-1	9/21/2011		ND	ND	ND	ND	ND	ND
CARBON-1	4/23/2010	OTHER	ND	ND	ND	ND	ND	ND
CVW EFF	3/17/2010	OTHER	ND	ND	ND	OTHER	ND	ND
CVW INF	3/17/2010	OTHER	5.7 UG/L	31 UG/L	4.2 UG/L	OTHER	ND	ND
DPE-1	1/8/2013	OTHER	ND	ND	ND	OTHER	ND	ND
DPE-1B	1/8/2013	OTHER	ND	ND	ND	OTHER	ND	ND
DPE-2	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
DPE-2B	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
DPE-3	1/8/2013	OTHER	5.3 UG/L	ND	3.7 UG/L	OTHER	ND	ND
DPE-5	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
DPE-6	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
DPE-7	1/8/2013	OTHER	ND	ND	ND	OTHER	ND	ND
EFF-001	1/12/2010	OTHER	ND	ND	ND	ND	ND	ND
EFF-1	10/30/2011	OTHER	ND	ND	ND	OTHER	ND	ND
EFFLUENT	5/27/2010	OTHER	ND	ND	ND	OTHER	ND	ND
GW-1	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
GW-2	1/8/2013	OTHER	ND	ND	ND	OTHER	ND	ND
GW-3	1/8/2013	OTHER	ND	ND	ND	OTHER	ND	ND
IN	2/22/2010		15 UG/L	53 UG/L	10 UG/L	OTHER	ND	ND
INF-001	1/12/2010	OTHER	25 UG/L	22 UG/L	5.7 UG/L	60 UG/L	ND	10 UG/L
INF-1	10/30/2011	OTHER	0.76 UG/L	4.1 UG/L	1.7 UG/L	OTHER	ND	ND
INFLUENT	5/27/2010	OTHER	3.8 UG/L	21 UG/L	3 UG/L	OTHER	ND	ND
MW-1	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-2	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-3	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-4	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-5	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-6	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-7	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
MW-8	1/7/2013	OTHER	ND	ND	ND	OTHER	ND	ND
OUT	2/22/2010		ND	ND	ND	OTHER	ND	ND
TB	4/23/2012		ND	ND	ND	OTHER	ND	ND
TB-1	9/15/2011		ND	ND	ND	ND	ND	ND

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](#)

<u>FIELD PT NAME</u>	<u>DATE</u>	<u>DEPTH TO WATER (FT)</u>	<u>SHEEN</u>	<u>DEPTH TO FREE PRODUCT (FT)</u>
GW-1	4/23/2012	7.43	U	
GW-2	4/23/2012	7.8	U	
GW-3	4/23/2012	7.35	U	
MW-1	4/23/2012	8.6	U	
MW-2	4/23/2012	8.24	U	
MW-3	4/23/2012	8.21	U	
MW-4	4/23/2012	7.42	U	
MW-5	4/23/2012	7.64	U	
MW-6	4/23/2012	7.14	U	
MW-7	4/23/2012	7.06	U	
MW-8	4/23/2012	8.1	U	

LOGGED IN AS KNOWELL

[CONTACT GEOTRACKER HELP](#)

ATTACHMENT 2

LTCP Checklist

[GEOTRACKER HOME](#) | [MANAGE PROJECTS](#) | [REPORTS](#) | [SEARCH](#) | [LOGOUT](#)

THOMPSON PROPERTY (T0600158621) - [MAP THIS SITE](#)

OPEN - ELIGIBLE FOR CLOSURE

1409-1417 12TH STREET
OAKLAND, CA 94607
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)
[PUBLIC WEBPAGE](#)

CLEANUP OVERSIGHT AGENCIES

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CASEWORKER: [KEITH NOWELL](#) - SUPERVISOR: DILAN ROE
SAN FRANCISCO BAY RWOCB (REGION 2) - CASE #: NA
CASEWORKER: [Cherie McCaulou](#) - SUPERVISOR: Cheryl L. Prowell

CUF Claim #: B0038 CUF Priority Assigned: CUF Amount Paid: [\\$1,186,977](#)
CR Site ID #: NOT SPECIFIED

THIS PROJECT WAS LAST MODIFIED BY [KEITH NOWELL](#) ON 4/20/2015 11:56:22 AM - [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 4/20/2015

CHECKLIST INITIATED ON 8/16/2013

[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?

Name of Water System :

EBMUD

YES NO

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](#)

NO

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

ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:

Exposure Type :

Residential Commercial Utility Worker

Petroleum Constituents in Soil :

≤ 5 Feet bgs >5 Feet bgs and ≤10 Feet bgs 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 Unknown

Soil Concentrations of Naphthalene :

> 9.7 mg/kg and ≤ 45 mg/kg > 45 mg/kg and ≤ 219 mg/kg > 219 mg/kg 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 :

Area of Impacted Soil > 82 by 82 Feet Unknown

Additional Information

Should this case be closed in spite of NOT meeting policy criteria?

YES NO

Explain:

Site does not meet Media-Specific Criteria: Direct Contact and Outdoor Air Exposure as elevated laboratory reporting limits exceed concentrations listed in Table 1 for benzene and ethyl benzene.

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 KNOWELL

[CONTACT GEOTRACKER HELP](#)

ATTACHMENT 3

**ATTACHMENT 3
LTCP GROUNDWATER SPECIFIC CRITERIA**

LTCP Groundwater Specific Scenario under which case was closed: Scenario 1

Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria
Plume Length	<100 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 to Decreasing with seasonal fluctuations (notably MW-8, GW-1, GW-2, DPE-3)	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 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	>1,000 feet (~7,600 feet north-northwest down-gradient, and ~4,800 feet south cross-gradient to the San Francisco Bay)	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not applicable	Not applicable	Not applicable	Yes	Not applicable

GROUNDWATER CONCENTRATIONS

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	3,360 (GW-1 on 7/27/08)	5.3 (DPE-3 on 1/8/13)	No criteria	<3,000	No criteria	<1,000
MTBE	0.72 (GW-3 on 11/12/09)	<0.50 (all wells)	No criteria	<1,000	No criteria	<1,000
TPH-g	37,000 (GW-1 on 4/30/08)	120 (DPE-3 on 1/8/13)	No criteria	No criteria	No criteria	No criteria
TPH-d	3,010 (GW-1 on 4/28/09)	470 (GW-1 on 1/7/13)	No criteria	No criteria	No criteria	No criteria
TPH-mo	909 (MW-8 on 4/28/09)	410 (MW-3 on 1/7/13)	No criteria	No criteria	No criteria	No criteria

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?

Attachment 3 Comments:

Plume Length: Determination based on direct evidence from down gradient wells and indirect evidence as the site's lithology from the surface to 3 feet below ground surface (bgs) is clay and/or fill underlain by sand and silty sand from 3 feet to 27 feet bgs with occasional interbedded layers of clayey sand (approximately 2 feet thick).

Low concentrations of dissolved phase total petroleum hydrocarbons as gasoline (TPH-g), TPH as diesel (TPH-d), and/or TPH as motor oil (TPHmo) are reported in several site wells: MW-3, GW-1, DPE-2B, DPE-3, and DPE-5. These wells generally experienced an increase of TPH concentrations in the final groundwater monitoring event conducted in January 2013. At the time of the final monitoring event, groundwater levels during this period consisted of either the shallowest or second-most shallowest depth-to-water levels historically measured (approximately 7.34 to 7.64 feet below top of casing- btoc).

Well DPE-3 total petroleum hydrocarbons as gasoline (TPH-g) and TPH as diesel (TPH-d) concentrations are defined by down-gradient well DPE-2 and cross-gradient wells DPE-6 and DPE-7; well GW-1 TPH-d concentrations are defined by down-gradient wells GW-2 and MW-8; well MW-3 TPH-d and TPH as motor oil (TPH-mo) concentrations are defined by down-gradient well MW-2 and cross-gradient well MW-1. TPH concentrations in MW-2 concentrations do not exceed laboratory reporting limits (LRLs). Based on the distance from impacted wells to the corresponding down-gradient wells, the maximum plume length is estimated to be approximately 30 feet.

While wells MW-3, GW-1, DPE-2B, DPE-3, and DPE-5 generally experienced an increase of TPH concentrations in the three monitoring events conducted in the 13 months leading up to the final groundwater monitoring in January 2013, groundwater levels during this period included the two of the shallowest levels historically (approximately 6.85 to 7.48 feet below top of casing- btoc) measured. These increases may be the result of rebound from the shut off of the dual-phase extraction (DPE) system and/or shallow groundwater intercepting pockets of residual impacted soils. ACEH is of the opinion that these recent groundwater detections (maximum concentrations of 250 micrograms per liter (ug/L) TPHg, 470 ug/L TPH-d, and 250 ug/L TPH-mo) do not pose a risk due to distance from the site to supply wells, surface water, and other sensitive receptors.

Free product is not present based on groundwater concentrations not approaching (within 20%) effective solubility. Additionally, groundwater monitoring logs and soil boring logs do not denote the presence of measurable or visible free product. MTBE has never been detected in any of the site groundwater monitoring wells from 2008 to 2013.

Groundwater flow direction: The groundwater monitoring wells' flow direction ranges from southwest to north-northwest, and the DPE wells' groundwater flow direction is from north to west, predominantly north-northwest, with a minor vector to the south-southeast.

Water Supply Wells in Vicinity:

- GeoTracker GAMA database indicates zero water supply wells within a 2,000 foot radius of the subject site.
- Additional vicinity supply well data (Dept. of Water Resources and Alameda County Public Water Agency records) is gathered from Chevron #20-6145 / Signal SS (800 Center Street, Oakland, Global ID T0600102230) located approximately 1,000 feet south-southwest and from Shell / Sabek Inc. (1230 14th Street, Oakland, Global ID T0600101691) located approximately 1,400 feet northeast of the subject site. . Based on these well survey reports, there are no known public or private water supply wells within a 1,700 foot radius of the site.

ATTACHMENT 4

**ATTACHMENT 4
LTCP VAPOR SPECIFIC CRITERIA**

LTCP Vapor Specific Scenario under which case was closed: Scenario 3A

Active as of: Not applicable (gasoline service station operations ceased pre-circa 1970)
(Currently Vacant Industrial Land)

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 LNAPL	No LNAPL	LNAPL in groundwater	LNAPL in soil	No LNAPL	No LNAPL	No LNAPL	No criteria
Thickness of Bio-attenuation Zone Beneath Ground Surface	≥5 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Soil in Bio-attenuation Zone	<100 mg/kg in the 0 to 5 foot zone	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	5.3 (DPE-3 on 1/8/13)	No criteria	No criteria	<100 µg/L	≥100 and <1,000 µg/L	<1,000 µg/L	No criteria
Oxygen Data within Bio-attenuation Zone	No oxygen data collected during May 2007 or May 2012 soil vapor surveys	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 ground surface	5 feet	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 Bio-attenuation Zone		Bio-attenuation Zone	
Constituent	Historic Maximum (µg/m³)	Current Maximum (µg/m³)	Residential	Commercial	Residential	Commercial
Benzene	1,200 (SV-6 on 5/17/07)	<0.68 (CSV-1 to CSV-6 on 8/25/12)	<85	<280	<85,000	<280,000
Ethylbenzene	150 (SV-6 on 5/17/07)	<1.0 (CSV-1 to CSV-6 on 8/25/12)	<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?

Attachment 4 Comments:

Soil vapor is evaluated as low-risk within the upper five-foot bio-attenuation zone. However, residual soil contamination exists below the five (5) foot zone. Therefore, construction of subsurface structures will require further soil vapor evaluation.

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). Soil vapor is evaluated as low-risk within the upper five-foot bio-attenuation zone. Free product is not present in groundwater based on current groundwater as benzene, toluene, ethylbenzene, xylenes (collectively BTEX) concentrations have not approached (within 20%) effective solubility since July 2009. Benzene effective solubility was exceeded at GW-1 at 3,000 $\mu\text{g/L}$ and 3,360 $\mu\text{g/L}$ in April 2009 and July 2008. Groundwater monitoring logs and soil boring logs do not denote the presence of measurable or visible free product although soil staining was observed. TPH-g and TPH-d concentrations in soil may be indicative of residual, non-mobile LNAPL as soil saturation limits (per LTCP "*Technical Justification for Low-Threat Closure Scenarios for Petroleum Vapor Intrusion Pathway*"): TPH-g >100-200 milligrams per kilogram (mg/kg); TPH-d >10-50 mg/kg) have been exceeded at CSB1, CSB6, MW-8, B-16, B-9, B3, and B5.

The bio-attenuation zone is partially determined by shallowest depth-to-groundwater (DTW) to determine vadose zone thickness. Shallowest DTW historically ranges between 6.61 feet btoc (DPE-3 on 4/23/12) to 8.60 feet btoc (MW-1 on 4/23/12). The shallowest DTW data took into consideration the DPE operational timeframes of January 2010 and May to October 2011. Historical average DTW is 9.65 feet btoc with DTW ranging between 6.61 to 12.68 feet btoc.

Total TPH (TPH-g plus TPH-d) does not exceed 100 mg/kg within the 0 to 5 foot bgs zone. Total TPH exceeds 100 mg/kg at multiple locations at depths exceeding 6.5 feet bgs: CSB1-7, CSB6-10, MW-8-6.5', B-16-8', B-9: 10', B3-11.5, and B5-10.5.

Benzene exceeded 100 $\mu\text{g/L}$ at GW-1 (1,100 $\mu\text{g/L}$) on 7/26/09. Since 2009, benzene has not exceeded 100 $\mu\text{g/L}$ at any site monitoring wells. Therefore, risk from vapor intrusion due to petroleum hydrocarbon contamination is determined to be low.

Although naphthalene was not analyzed during soil vapor sampling, naphthalene was analyzed in two soil bores: CSB-1R and CSB-6R (on 10/25/13) from 5 to 18 feet bgs. Naphthalene was detected in 3 of 8 samples ranging from 0.035 to 0.680J mg/kg. Additionally, naphthalene was analyzed in grab groundwater samples B1 to B5 (on 8/12/99), and concentrations were not detected above LRL (ND<500 $\mu\text{g/L}$). Concentrations in soil and groundwater do not appear to present a risk for vapor intrusion.

Soil vapor sampling data does not qualify for evaluation under Bio-attenuation Zone criteria as oxygen content is unknown and total TPH soil concentrations were not sampled at two depths within the shallow soil zone (0 to 5 foot bgs). However, confirmatory soil vapor sampling results do not exceed the LTCP No Bio-attenuation Zone screening criteria.

ATTACHMENT 5

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 as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls.**

Are maximum concentrations less than those in Table 1 below?			No – due to elevated Laboratory Reporting Limits exceeding screening criteria			
Constituent		Residential		Commercial/Industrial		Utility Worker
		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	0.007 (B3-5)	<25 (B-9-10)	0.007 (B3-5)	<25 (B-9-10)	<25 (B-9-10)
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	0.007 (B3-5)	<25 (B-9-10)	0.007 (B3-5)	<25 (B-9-10)	<25 (B-9-10)
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	<0.010 (CSB1R-5 and CSB6R-5)	0.680 J (CSB1R-10)	<0.010 (CSB1R-5 and CSB6R-5)	0.680 J (CSB1R-10)	0.680 J (CSB1R-10)
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?			Yes			
<p>Attachment 5 Comments:</p> <p>Shallow soil impacts (0 to 5 feet bgs) appear limited to the B3 area with concentrations not exceeding Residential screening criteria. At all other shallow soil boring locations benzene and ethylbenzene concentrations do not exceed LRLs (ranging from <0.0044 to <0.010 mg/kg).</p> <p>Deep soil impacts (5 to 10 feet bgs) exceed Table 1 benzene and ethylbenzene screening criteria at three locations:</p> <ul style="list-style-type: none"> • CSB6-10 – Concentrations are not detected above elevated LRLs (<13 mg/kg) which exceed Table 1 criteria. Concentrations at 7 and 13 feet bgs are not detected above LRL of <0.0048 mg/kg. • B-16: 8' – Concentrations of benzene (13 mg/kg) and ethylbenzene (110 mg/kg) exceed Table 1 criteria. Concentrations at 5 and 10 feet bgs are not detected above LRL (<0.005 mg/kg). • B-9: 10' - Concentrations are not detected above elevated LRLs (<25 mg/kg) which exceed Table 1 criteria. At 5 feet bgs concentrations are not detected above LRL of <0.005 mg/kg; at 12 feet bgs concentrations of benzene are not detected above elevated LRL of <50 mg/kg while ethylbenzene concentrations are 220 mg/kg. At 20 feet bgs, concentrations of benzene and ethylbenzene decrease to 0.83 and 0.44 mg/kg, respectively. 						

Attachment 5 Comments:

Elevated laboratory reporting limits make risk assessment difficult as the actual concentrations may persist between **Table 1** and the LRL or may not exceed the **Table 1** criteria. Existence of other non-target VOCs (e.g. toluene, xylenes) at elevated concentrations, or detections of non-target COPCs (e.g. TPH) may indicate existence of target volatile organic compounds (VOCs). ACEH has utilized alternate lines to evidence, outlined below, to further evaluate the risk posed from site maximum concentrations in **Table 1** volatilization to outdoor air criteria:

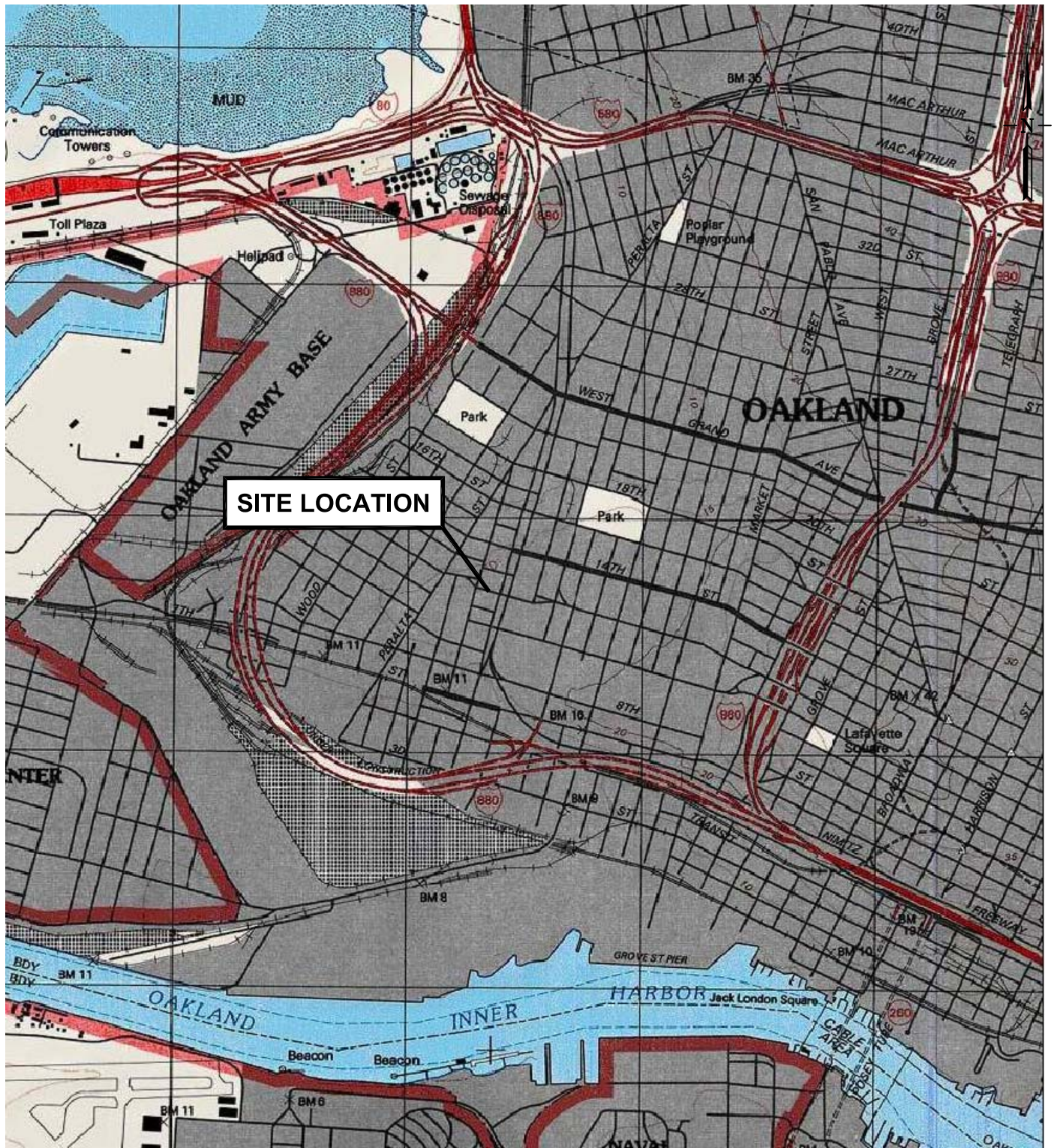
- Soil vapor point SV-6 lies adjacent to boring B-9 and within approximately 7 lateral feet of boring CSB-6. Soil vapor benzene concentration (1,200 micrograms per cubic meter - $\mu\text{g}/\text{m}^3$) exceeds residential and commercial soil gas criteria with no bio-attenuation zone. However, confirmation soil vapor points CSV-4, -5, and -7 lie within 5 to 8 lateral feet of SV-6 and the benzene and ethylbenzene concentrations do not exceed LRLs (<0.68 and $<1.0 \mu\text{g}/\text{m}^3$, respectively), and therefore, do not exceed residential or commercial soil gas criteria with no bio-attenuation zone.
- Soil vapor points CSV-2 and CSV-6 lie approximately 5 to 8 feet laterally from boring B-16. Soil vapor benzene and ethylbenzene concentrations do not exceed LRLs (<0.68 and $<1.0 \mu\text{g}/\text{m}^3$, respectively), and therefore, do not exceed residential or commercial soil gas criteria with no bio-attenuation zone.
- Confirmation soil sampling at boring CSB-6R (approximately 4 lateral feet from CSB-6) shows benzene and ethylbenzene concentrations do not exceed LRLs ($<0.010 \text{ mg}/\text{kg}$) at any depth from 5 to 15 feet bgs.
- Delineation of benzene and ethylbenzene soil impacts at borings CSB-6 and B-9 utilizing borings CSB-4, CSB-7, CSB-6R, CSB-5, GW-2, and B-6 (detections do not exceed LRLs ranging from <0.0048 to $<0.010 \text{ mg}/\text{kg}$) indicate an approximate 5 to 10 foot radius of impacted soil.
- Delineation of benzene and ethylbenzene soil impacts at boring B-16 utilizing borings B3, CSB-2, and CSB-3 (maximum detections of 2.0 and 17 mg/kg , respectively at boring B3 at 11.5 feet bgs) indicate an approximate 5 to 10 foot radius of impacted soil.

The above data, confirmation soil sampling and soil vapor assessments adjacent to impacted soils, indicates that site management requirements limiting the future site use to industrial / commercial purposes presents a low risk to receptors. Delineation of soil with elevated LRLs demonstrating exceedances to **Table 1** criteria for benzene volatilization to outdoor air may indicate that residual impacted soils are limited to small, localized pockets.

Naphthalene had limited analysis in two soil bores: CSB-1R and CSB-6R (on 10/25/13) from 5 to 18 feet bgs. Naphthalene was detected in 3 of 8 samples ranging from 0.035 to 0.68J mg/kg . Additionally, naphthalene was analyzed in grab groundwater samples B1 to B5 (on 8/12/99), and concentrations were not detected above LRL (ND $<500 \mu\text{g}/\text{L}$). Concentrations in soil do not appear to be leaching to groundwater.

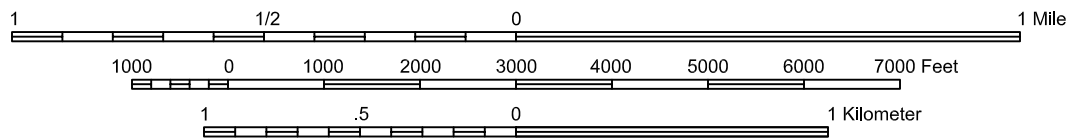
Poly-aromatic hydrocarbons (PAHs) were not analyzed in soil as it was reported the site previously contained gasoline USTs. Sampling and analysis for PAHs is only necessary where soil is affected by either waste oil or Bunker C fuel.

ATTACHMENT 6



SITE LOCATION

Scale 1:24,000



C:\WORK\IES1\409 12th Street\Figure 1.dwg Layout: Fig 2 Sep 22, 2007 - 8:03pm

Impact Environmental Services
 39120 Aronaut Way, Suite 223
 Fremont, CA 94538

Figure 1
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
SITE LOCATION MAP



Google earth

feet
meters





- Historical Features**
- Shoreline
 - Creek
 - Beach
 - Salt Pond
 - Slough
 - Tidal Marsh
 - Willow Grove
 - Freshwater Marsh or Pond

- Present Features**
- Creek
 - Engineered Channel
 - Underground Culvert or Storm Drain
 - Flood Control Channel
 - Artificial Body of Water

Google earth

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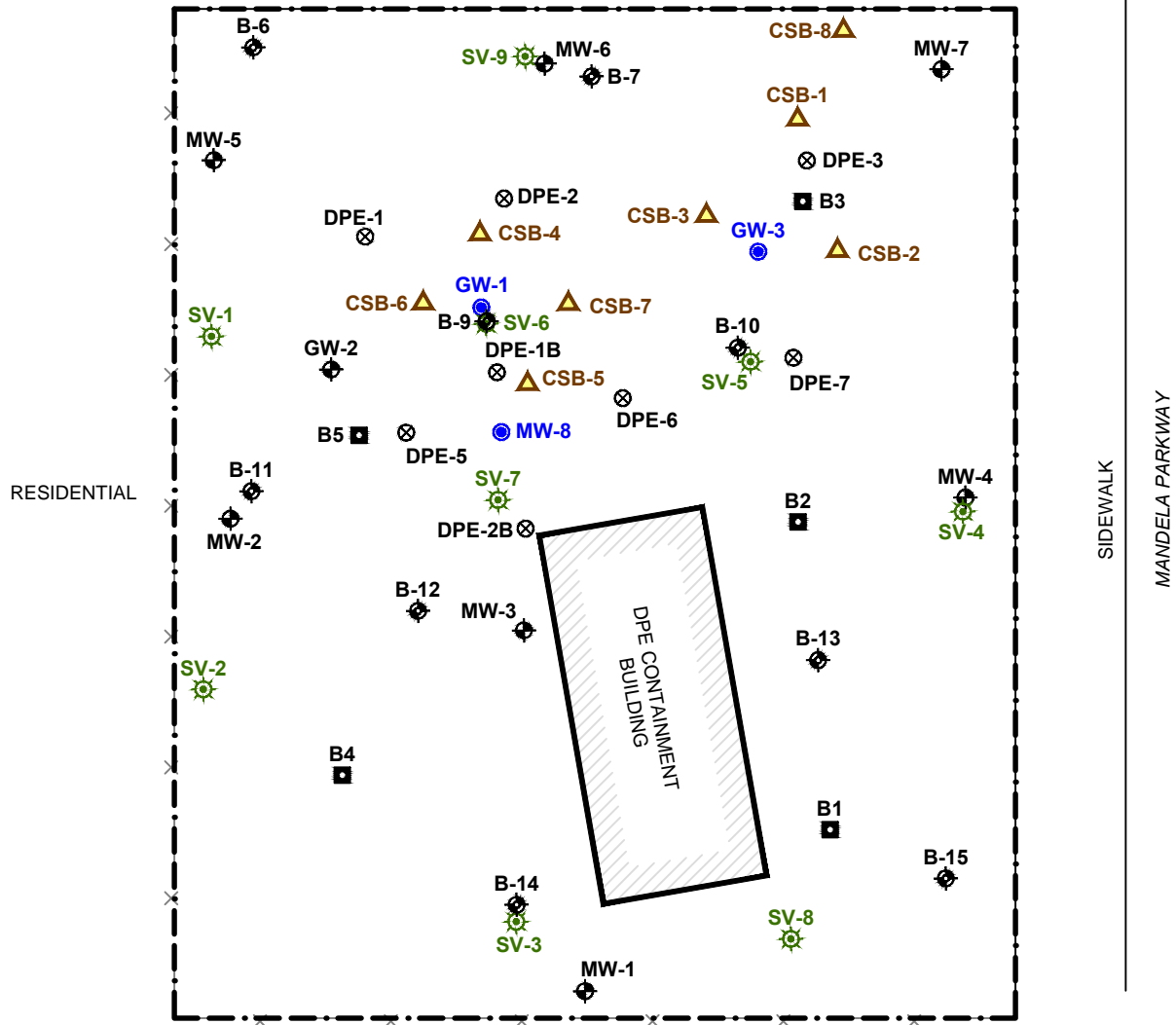
Google earth



D:\Work\EnviroCAD\IES\1409-1417 12th Street\Closure Verification Supplemental\Figure 2 - Site Plan.dwg Layout: Fig 2 - Site Plan Jan 08, 2014 - 7:54pm

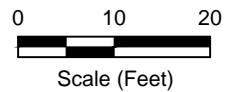
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- GW-3 DPE/Monitoring Well Location (Dual-Use Well)
- DPE-1 DPE Well Location
- B-14 Exploratory Boring Location
- B4 Geoprobe Location
- SV-2 Soil Vapor Sample Location
- CSB-6 Closure Verification Soil Boring Location

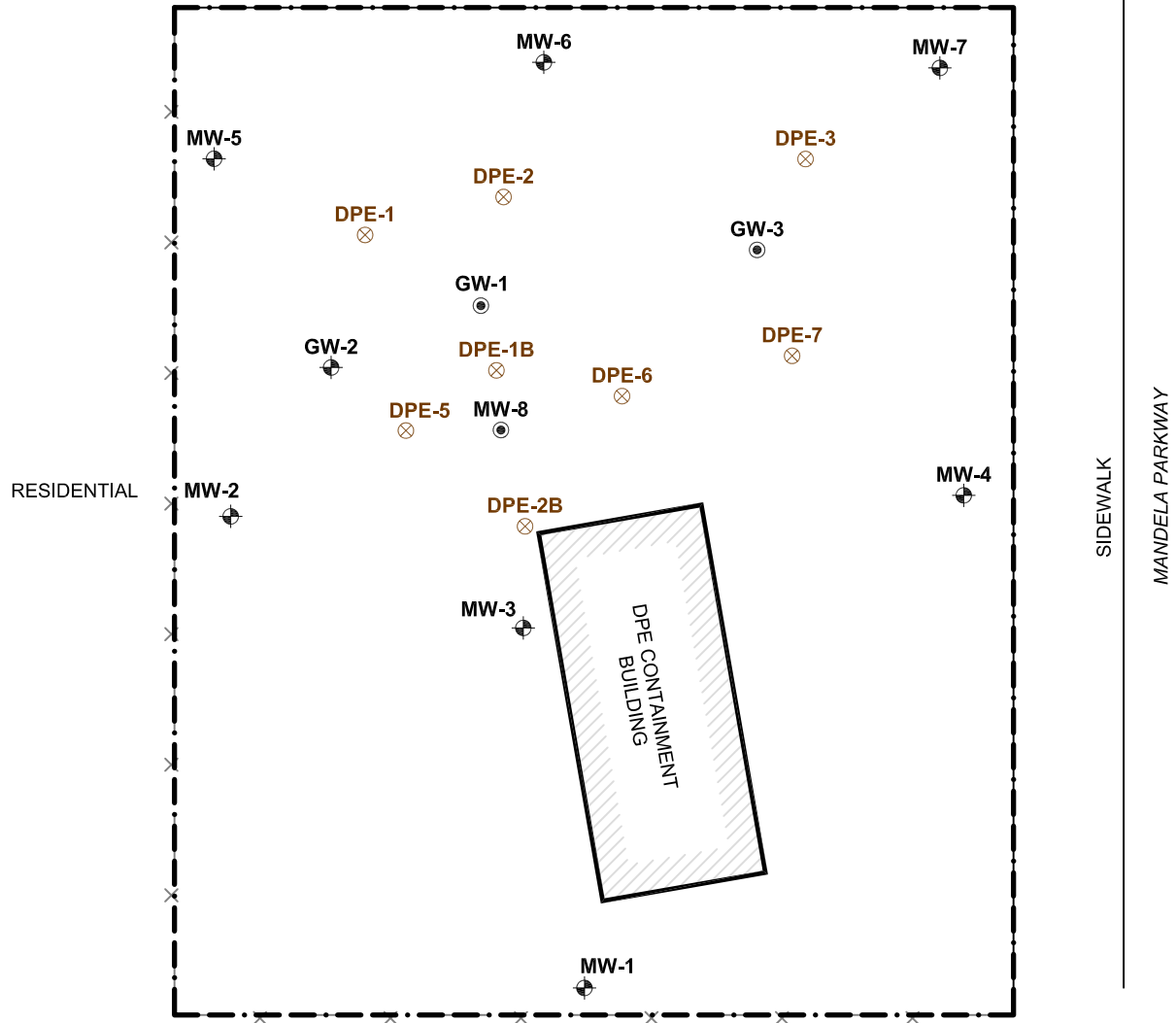


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 Fremont, CA 94538

Figure 2
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
SITE PLAN

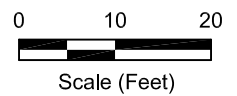
12TH STREET

SIDEWALK



EXPLANATION:

-  Approximate Property Boundary
-  MW-1 Monitoring Well Location
-  GW-3 DPE/Monitoring Well Location (Dual-Use Well)
-  DPE-1 DPE Well Location

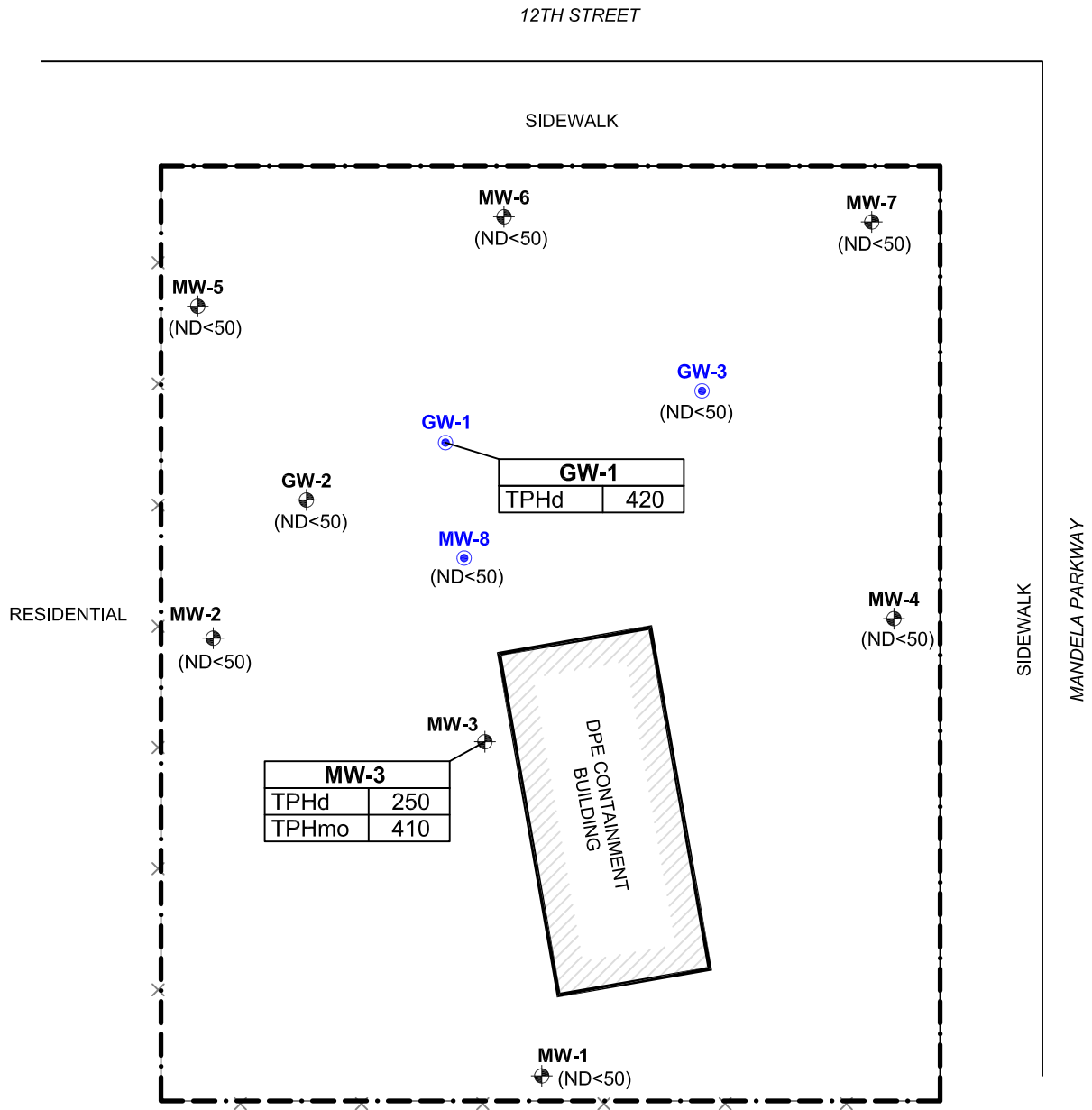


C:\Work\EnviroCAD\IES\1409-1417 12th Street\2010 Annual_GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 2 - Site Plan Jan 13, 2011 - 8:15pm

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Figure 2
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
SITE PLAN

D:\Work\EnviroCAD\IES\1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 7_9.dwg Layout: Fig 9 - TPH_GW-01-13 Mar 21, 2013 - 7:55pm

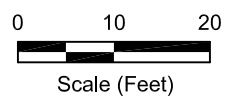


EXPLANATION:

- Approximate Property Boundary
- MW-1** Monitoring Well Location
- GW-3** DPE/Monitoring Well Location (Dual-Use Well)
- (ND<50) TPHg, TPHd, TPHmo, and BTEX All Non-Detect

GW-1	
TPHd	250
TPHmo	410

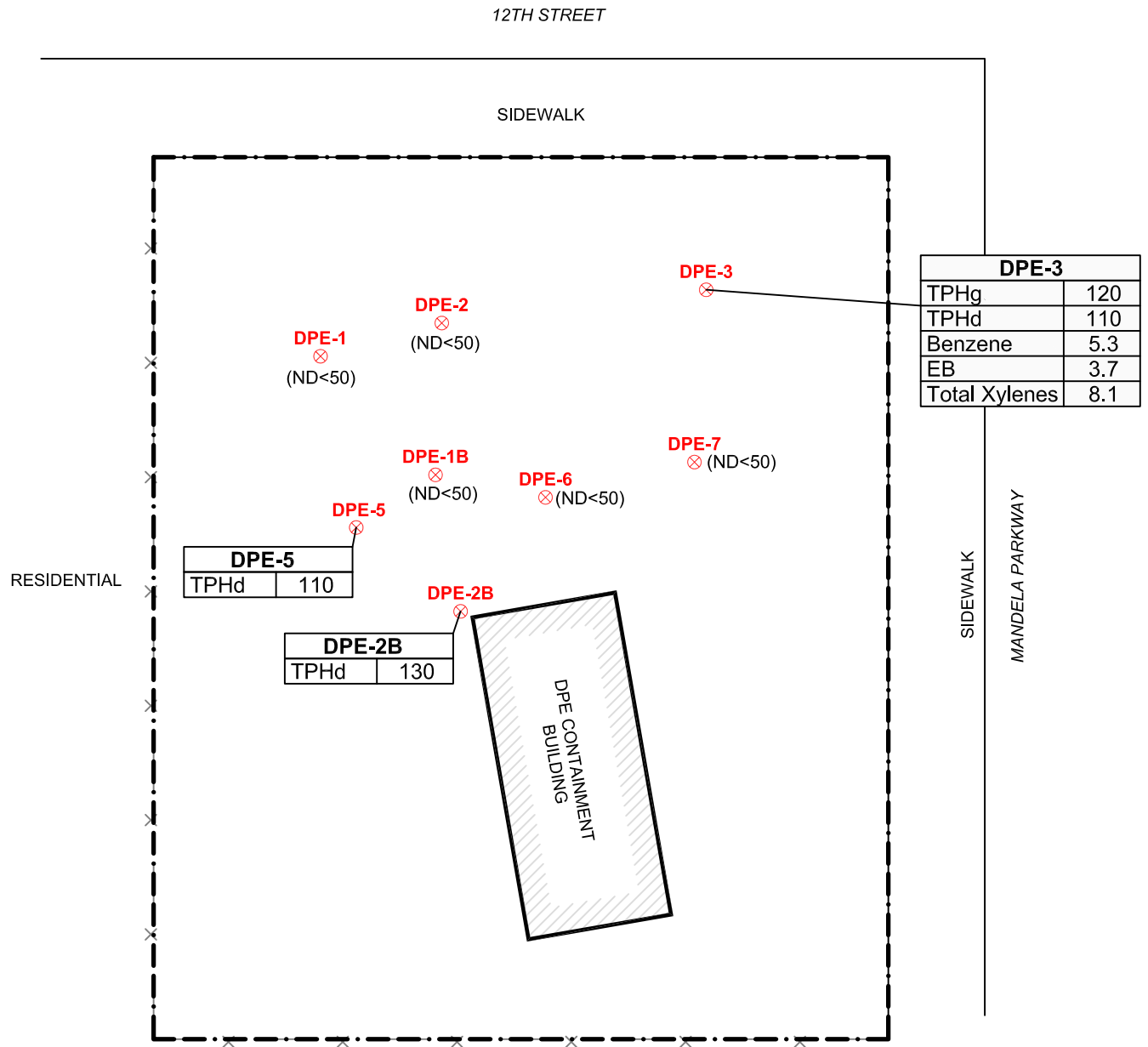
Results in Micrograms Per Liter (ug/L)



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Figure 9
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
**TPHg, TPHd, TPHmo, BTEX, and FUEL OXYGENATES
 IN GROUNDWATER MONITORING WELLS (JANUARY 2013)**

D:\Work\Enviro\CAD\IES1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 8_10.dwg Layout: Fig 10 - TPH_GW-01-13 Mar 21, 2013 - 7:54pm

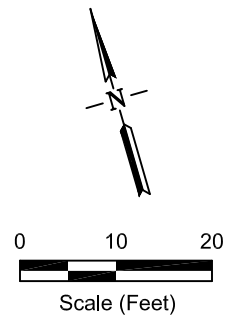


EXPLANATION:

- Approximate Property Boundary
- DPE-1** ⊗ DPE Well Location
- (ND<50) TPHg, TPHd, TPHmo, BTEX, Fuel Oxygenates All Non-Detect

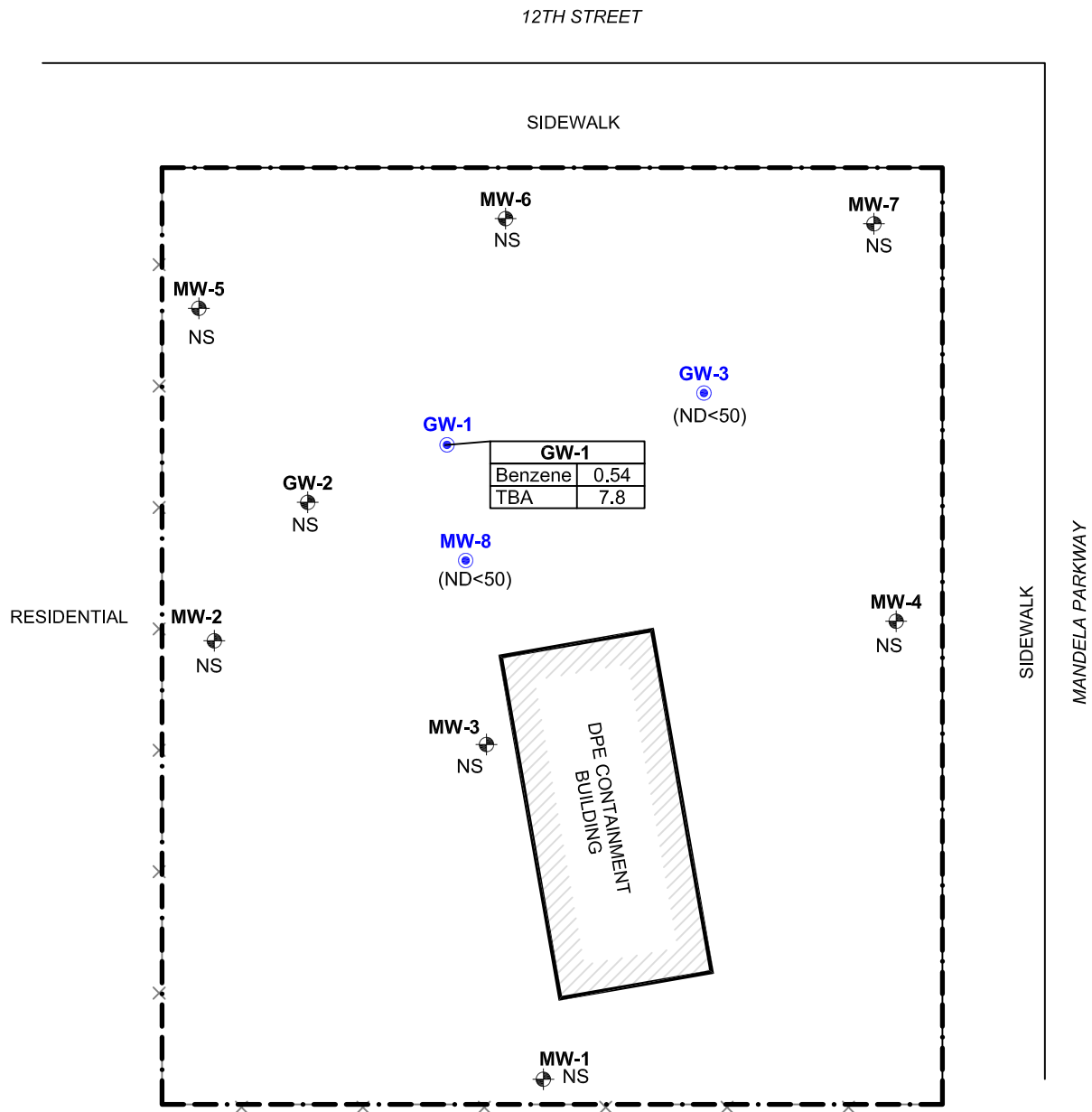
DPE-2B	
TPHd	130

Results in Micrograms Per Liter (ug/L)



<p>Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538</p>	<p>Figure 10 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA TPHg, TPHd, TPHmo, BTEX, and FUEL OXYGENATES IN DPE WELLS (JANUARY 2013)</p>
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D:\Work\EnviroCAD\IES\1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 7_9.dwg Layout: Fig 7 - TPH_GW-08-12 Mar 21, 2013 - 7:55pm



EXPLANATION:

- Approximate Property Boundary
- Monitoring Well Location
- DPE/Monitoring Well Location (Dual-Use Well)
- (ND<50) TPHg, TPHd, TPHmo, BTEX, and Fuel Oxygenates All Non-Detect
- NS Not Sampled during this event

GW-1	
Benzene	0.54
TBA	7.8

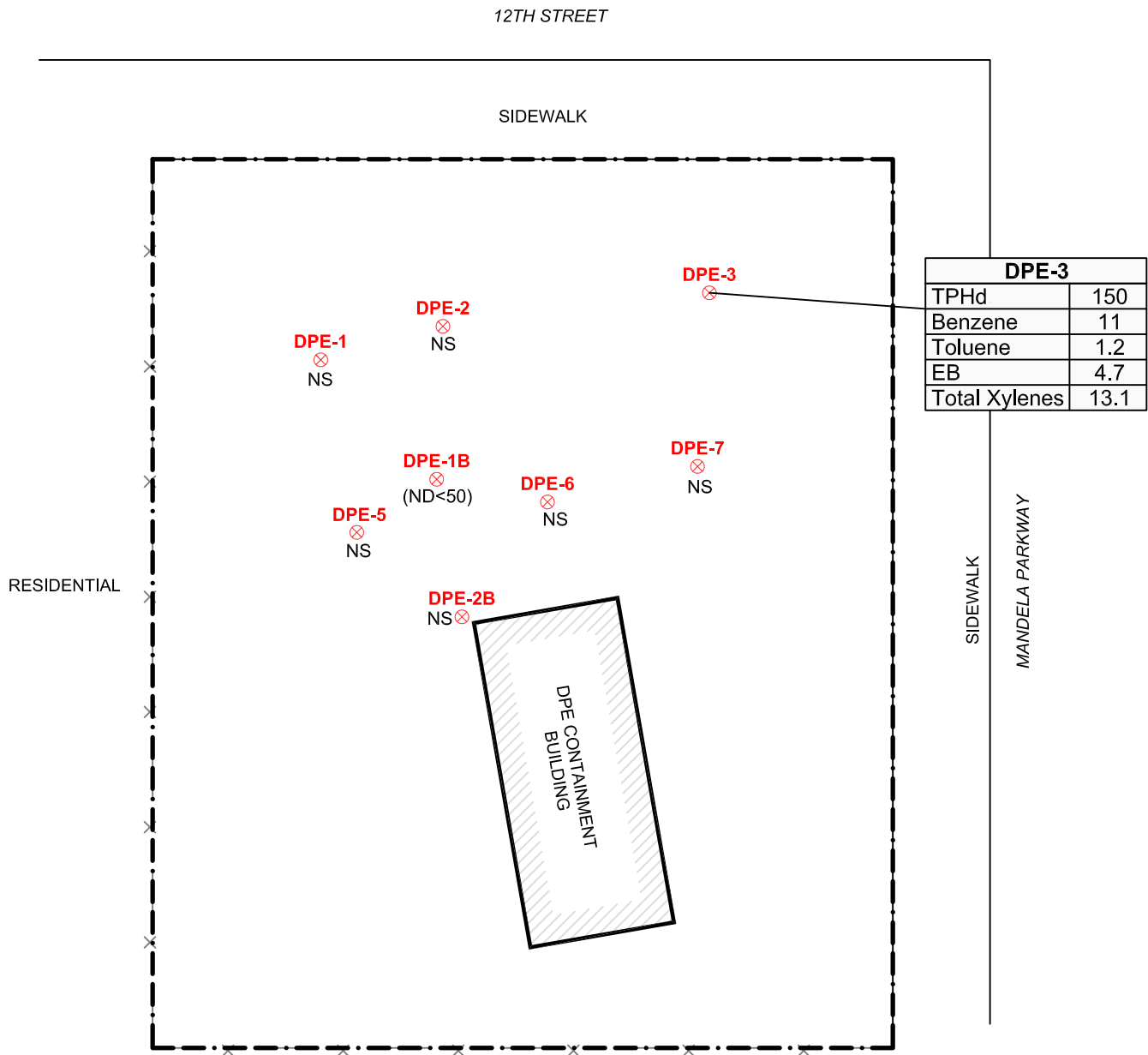
Results in Micrograms Per Liter (ug/L)



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Figure 7
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
**TPHg, TPHd, TPHmo, BTEX, and FUEL OXYGENATES
 IN GROUNDWATER MONITORING WELLS (AUGUST 2012)**

D:\Work\EnviroCAD\IES1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 8_10.dwg Layout: Fig 8 - TPH_DPE-08-12 Mar 21, 2013 - 7:50pm

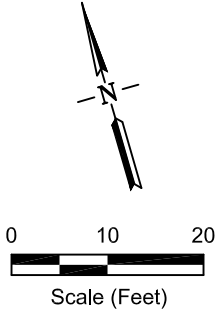


EXPLANATION:

- Approximate Property Boundary
- DPE-1** DPE Well Location
- (ND<50) TPHg, TPHd, TPHmo, BTEX, and Fuel Oxygenates All Non-Detect
- NS TPHd Results in Micrograms Per Liter (ug/L)

DPE-3	
TPHd	150
Benzene	11
Toluene	1.2
EB	4.7
Total Xylenes	13.1

Results in Micrograms Per Liter (ug/L)



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Figure 8
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
**TPHg, TPHd, TPHmo, BTEX, and FUEL OXYGENATES
 IN DPE WELLS (AUGUST 2012)**

GEOTRACKER GAMA

SEARCH FOR WELLS

All Wells

Any Chemical

All Years

0 WELLS FOUND

* The list of comparison concentrations can be found [here](#).

DATASETS

ENVIRONMENTAL MONITORING:

- Monitoring Wells - Water Board Regulated
- Irrigated Lands Regulatory Program

SUPPLY WELLS:

- Public Supply Wells
- GAMA - SWRCB Domestic
- GAMA - USGS
- GAMA - LLNL
- DPR
- DWR
- USGS - NWIS

[DOWNLOAD MAP DATA](#)

[DOWNLOAD DATA BY COUNTY](#)

[ADDITIONAL DATASET INFORMATION](#)

GIS LAYERS

DTW / GW ELEVATION

LOCAL INFORMATION

CITY OAKLAND

COUNTY ALAMEDA - [VIEW WATER REPORTS](#)

GROUNDWATER BASIN SANTA CLARA VALLEY - EAST BAY PLAIN (2-9.04)

[VIEW 60 ENVIRONMENTAL MONITORING WELL BORING LOGS](#)

[MEASURE DISTANCE](#) [CONTACT US](#)

1409 12th street oakland

1409 12th Street, Oakland, CA 94607, USA

LIMIT TO SITES WITHIN FEET OF THIS LOCATION

[REMOVE SEARCH RADIUS](#) [DOWNLOAD DATA IN SEARCH RADIUS](#)
[VIEW WATER QUALITY SUMMARY FOR ALAMEDA COUNTY](#)

LOCATIONS FOUND

--

G:\OAKLAND\1230-14TH\FIGURES\WELL-SURVEY.A1



Former Shell Service Station
 1230 14th Street
 Oakland, California
 Incident #97088250



C A M B R I A

Area Well Survey
 (1/2-Mile Radius)

Table 1. Department of Water Resources Well Survey Results

Former Shell Service Station - Incident# 97088250, 1230 14th St., Oakland

Map ID	Well ID	Installation Date	Owner	Use	Depth (fbg)	Screened Interval (fbg)
1	1S/4W-34F4	08/08/69	Universal Foods Corp.	IND	400	200-380
2	1S/4W-34F2	1946 or earlier	Red Star Yeast Co.	UNK	350	188-330
3	1S/4W-34F1	08/39	Golden West Brewing Co.	UNK	277	Unknown
4	1S/4W-27F	03/03/13	White	UNK	212	Unknown
5	1S/4W-27F1	07/31/74	Pacific Gas & Electric Co.	CAT	120	---
6	1S/4W-27K	09/06/27	City of Oakland	UNK	137	Unknown

Notes and Abbreviations:

Well information provided by the Department of Water Resources.

Map ID number refers to map location on Figure 1.

Well ID = California State well identification number as recorded by the Department of Water Resources in Sacramento, California

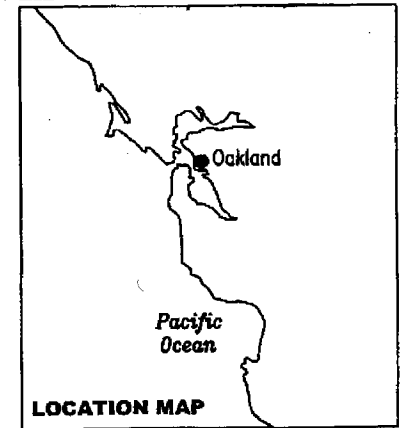
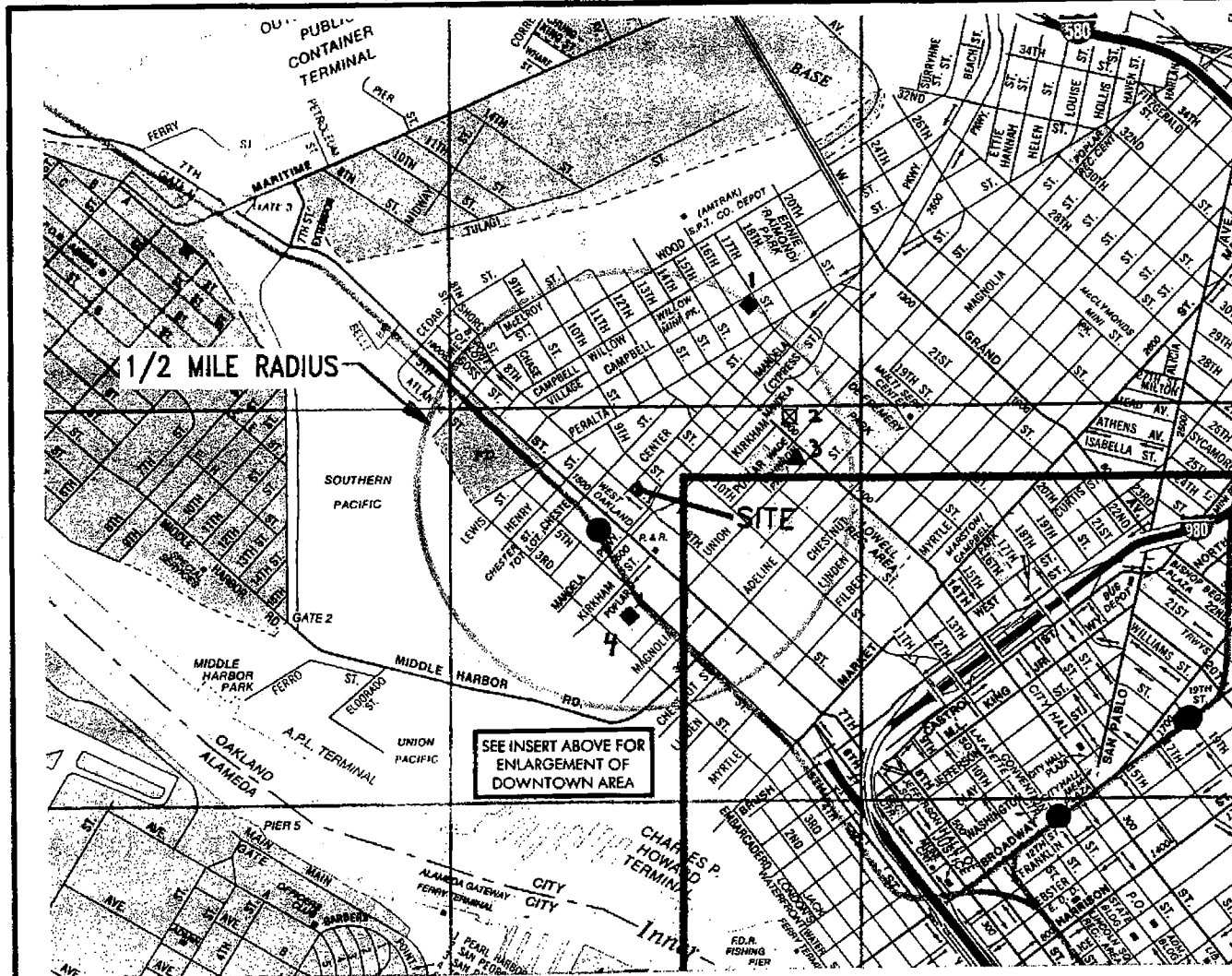
fbg =feet below grade

IND = Industrial Well

UNK = Well of Unknown Use

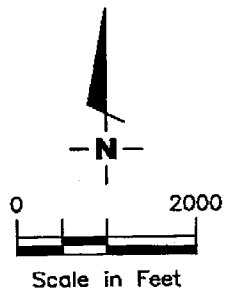
CAT = Cathodic Protection Well

Monitoring wells were not located or mapped.



EXPLANATION

- ☒ Abandoned Well
- ◆ Industrial Well
- ▲ Irrigation Well



Source: AAA map.

GR GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

WELL SURVEY MAP
 Former Signal Oil Service Station No 20-6145
 800 Center Street
 Oakland, California

FIGURE
3

TABLE 4 - WELL SEARCH DATA
Former Chevron Service Station No. 20-6145
800 Center Street, Oakland California
Half Mile Radius Around Site

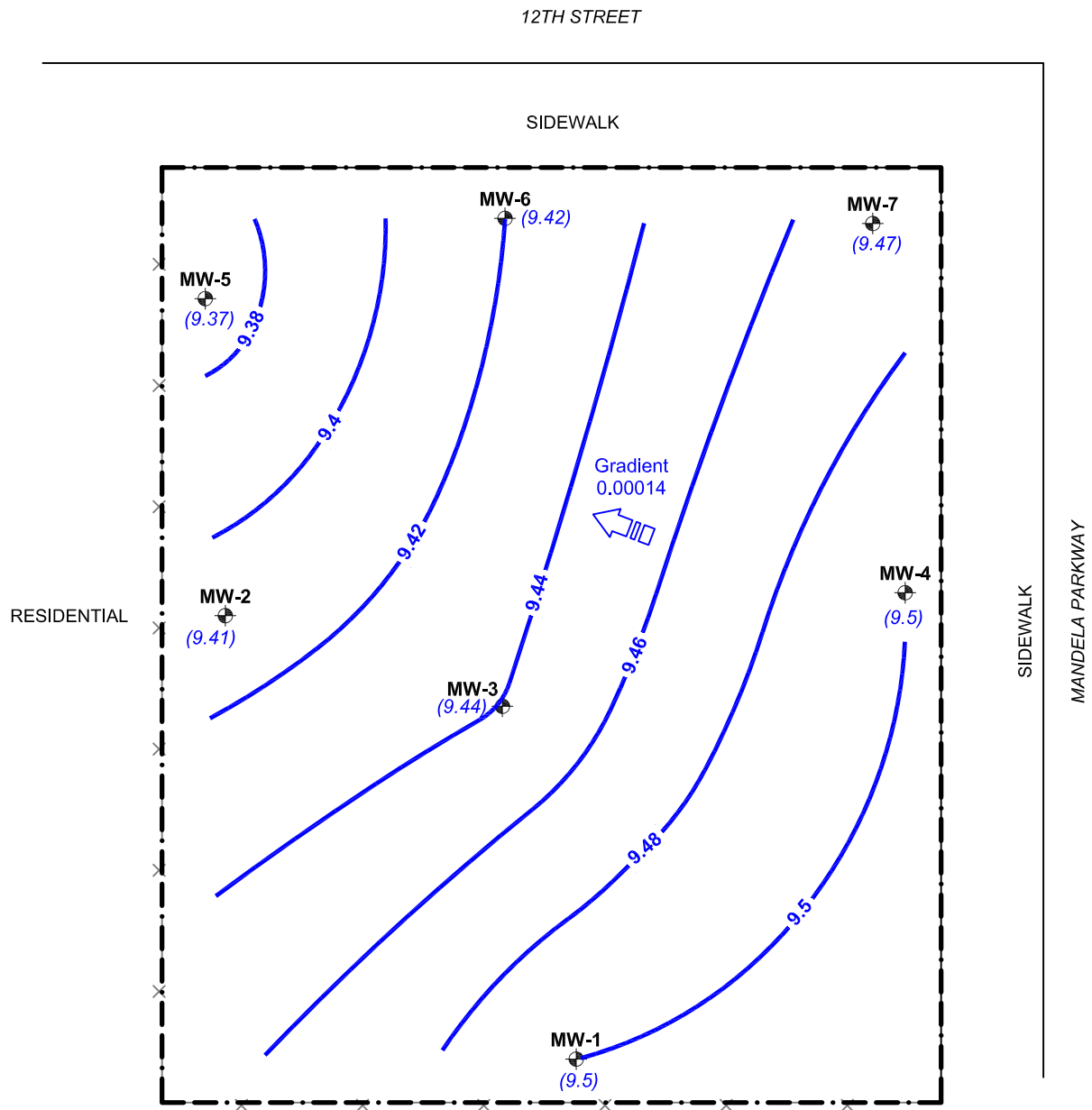
Map ID	Well Owner	Well Location	Well Use	Well Status	State Well #	Year Installed	Well Depth (feet)	Screen Interval (feet)		Well Diameter (inches)	AVG DTW (feet)
								From	To		
1	General Electric Company	1614 Campbell Street	IND	NA	NA	1918	200	NA	NA	NA	4
2	Carnation Dairy Facility	1310 4th Street	ABD	NA	NA	1990	20	NA	NA	2	NA
3	Shredded Wheat	Union and 14th Street	IRR	NA	NA	1915	55	NA	NA	NA	8
4	Red Star Yeast Company	1384 5th Street	IND	NA	NA	1946	350	NA	NA	12	43

Explanation

Well location data supplied by the County of Alameda Public Works Agency

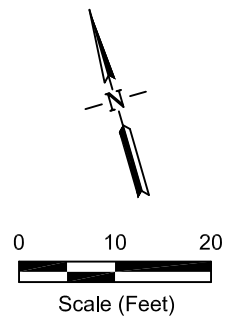
IND = Industrial Well
ABD = Abandoned Well
IRR = Irrigation Well
NA = Information Not Available
DWT = Depth To Water

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 3 - GW-elev_07-08 Dec 13, 2010 - 7:29pm



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- 9.48 Groundwater Elevation Contour (ft.-MSL)
- (9.5) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient



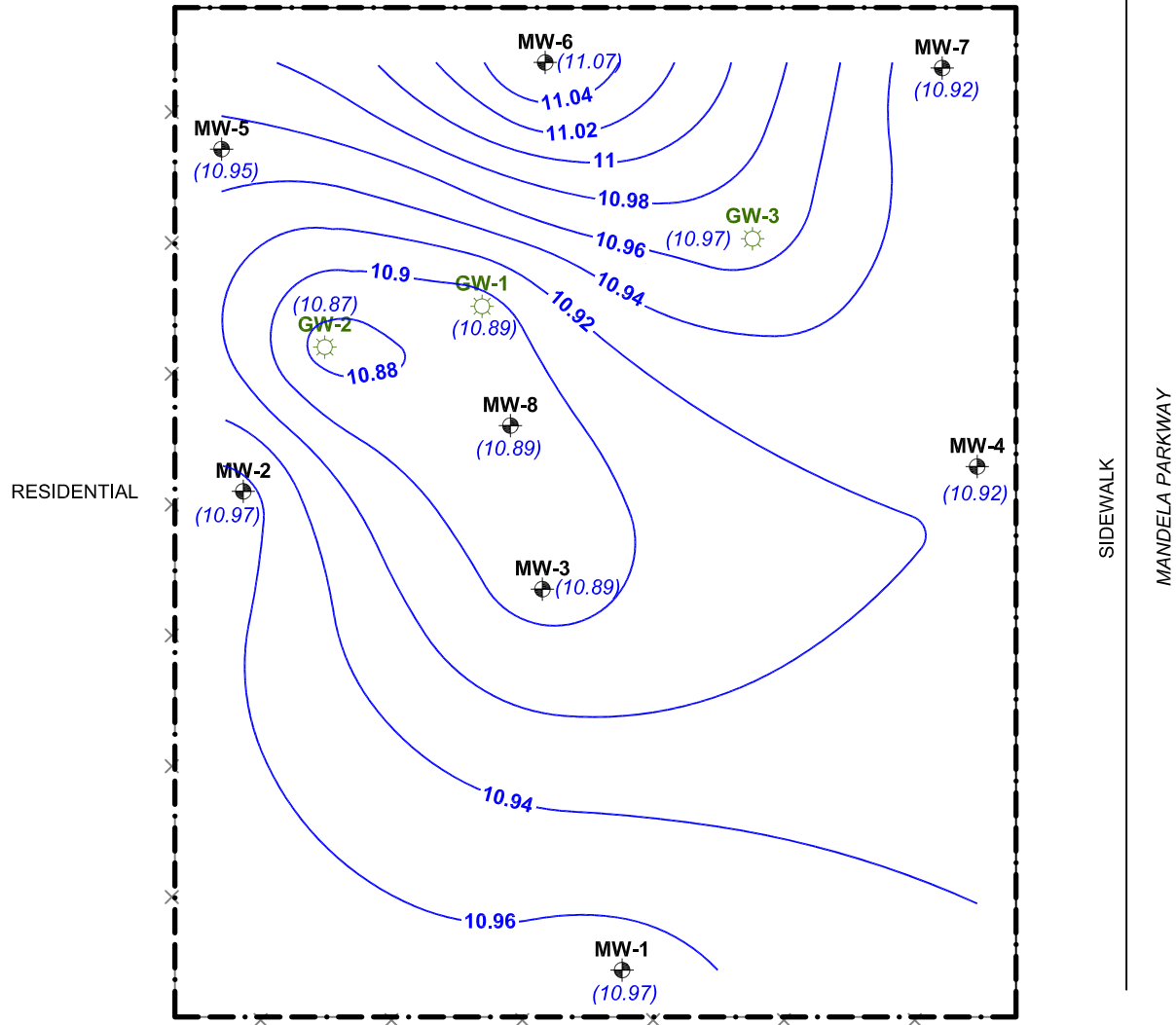
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Figure 3
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (JULY 2008)

August 8, 2008

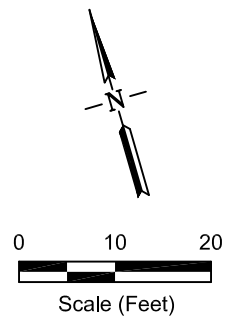
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-8 Monitoring Well Location
- GW-3 Groundwater Extraction Well Location
- 10.9 Groundwater Elevation Contour (ft.-MSL)
- (10.97) Groundwater Elevation (ft.-MSL);

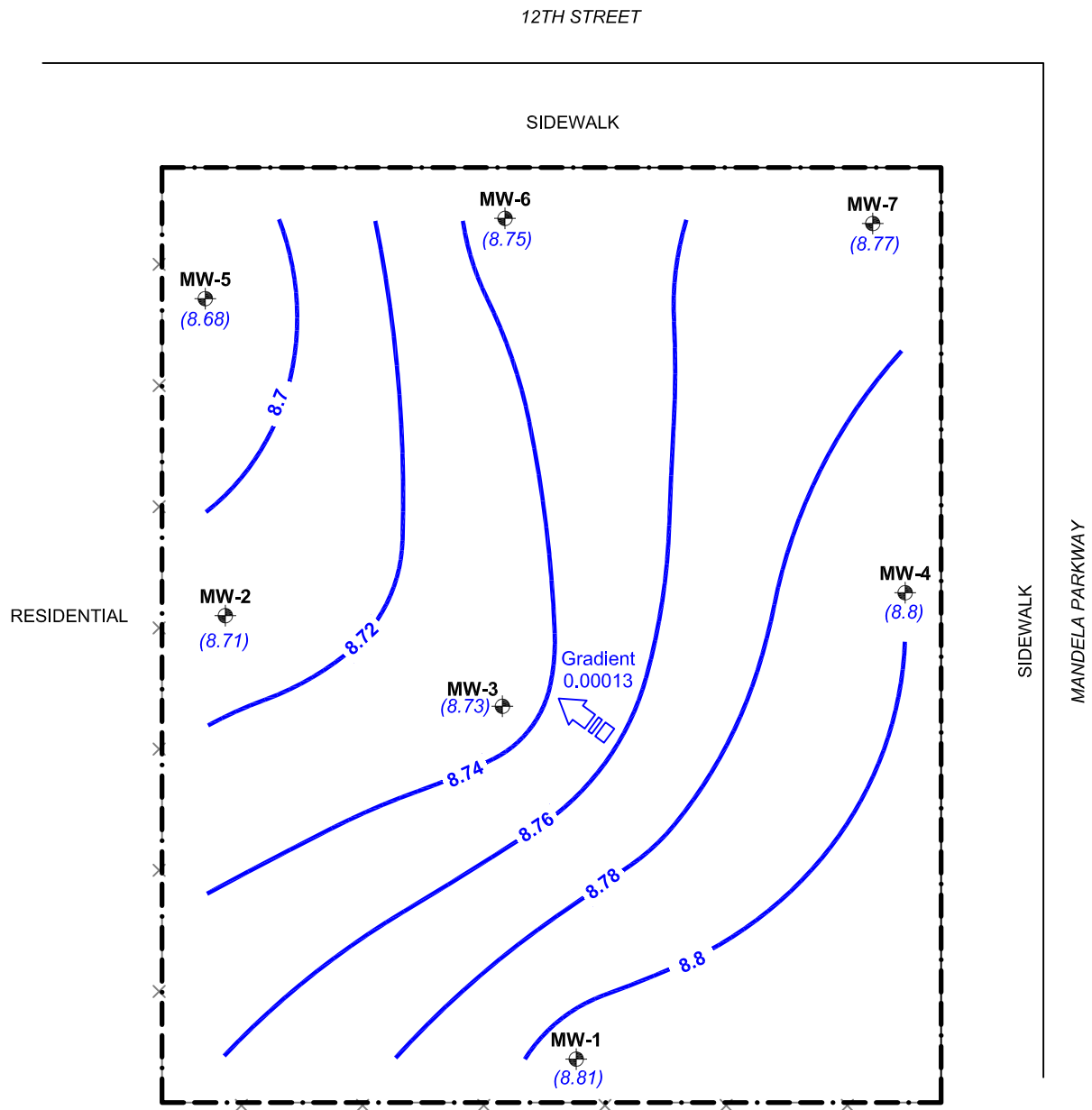


C:\Work\IES\1409-1417 12th Street\2\Figure 2-3-4-5-6.dwg Layout: Fig 4 - GW-elev Aug 06, 2008 - 10:18pm

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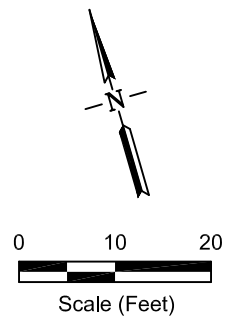
Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION MAP

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 4 - GW-elev_10-08 Dec 13, 2010 - 7:32pm



EXPLANATION:

- Approximate Property Boundary
- Monitoring Well Location
- 8.78 Groundwater Elevation Contour (ft.-MSL)
- (8.81) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient

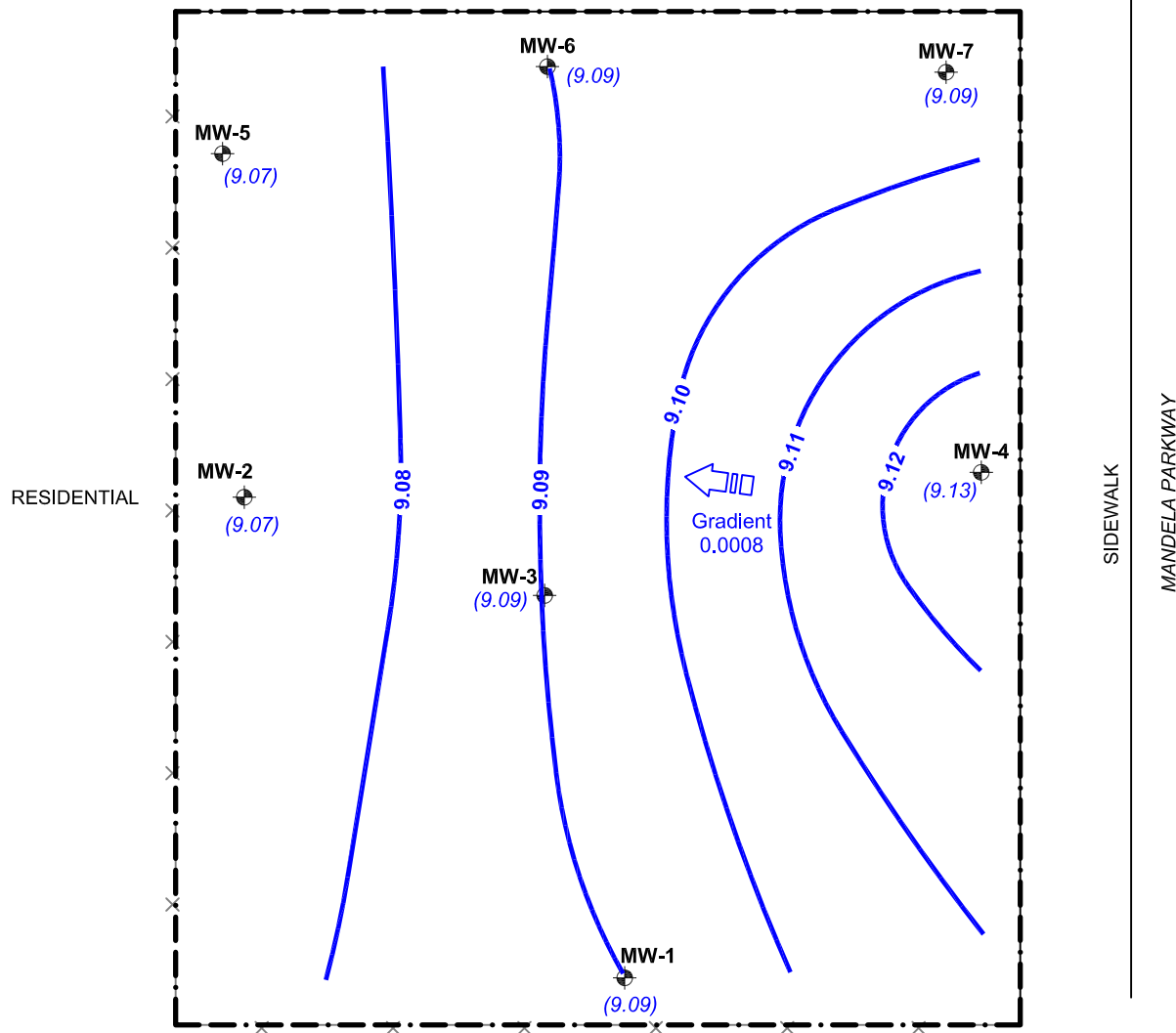


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Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (OCTOBER 2008)

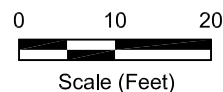
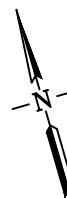
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- 9.12 Groundwater Elevation Contour (ft.-MSL)
- (9.09) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient

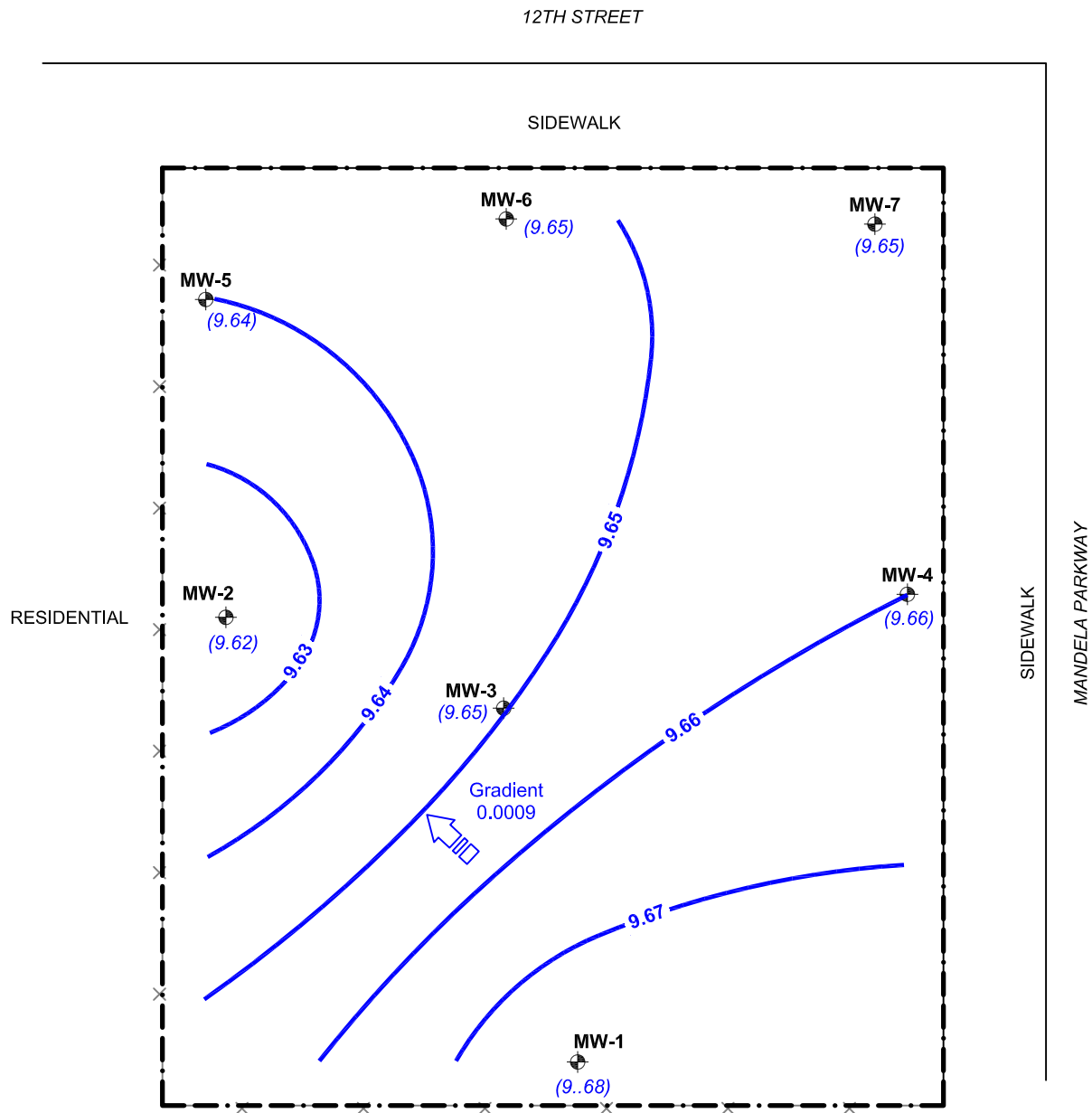


C:\Work\EnviroCAD\IES\1409-1417 12th Street\1-2Q-09 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 3 - GW-01-09 Dec 21, 2010 - 8:56pm

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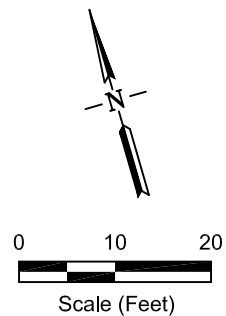
Figure 3
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (JANUARY 2009)

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 3 - GW-07-09 Jan 10, 2011 - 7:27pm



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- 9.67 Groundwater Elevation Contour (ft.-MSL)
- (9.68) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient

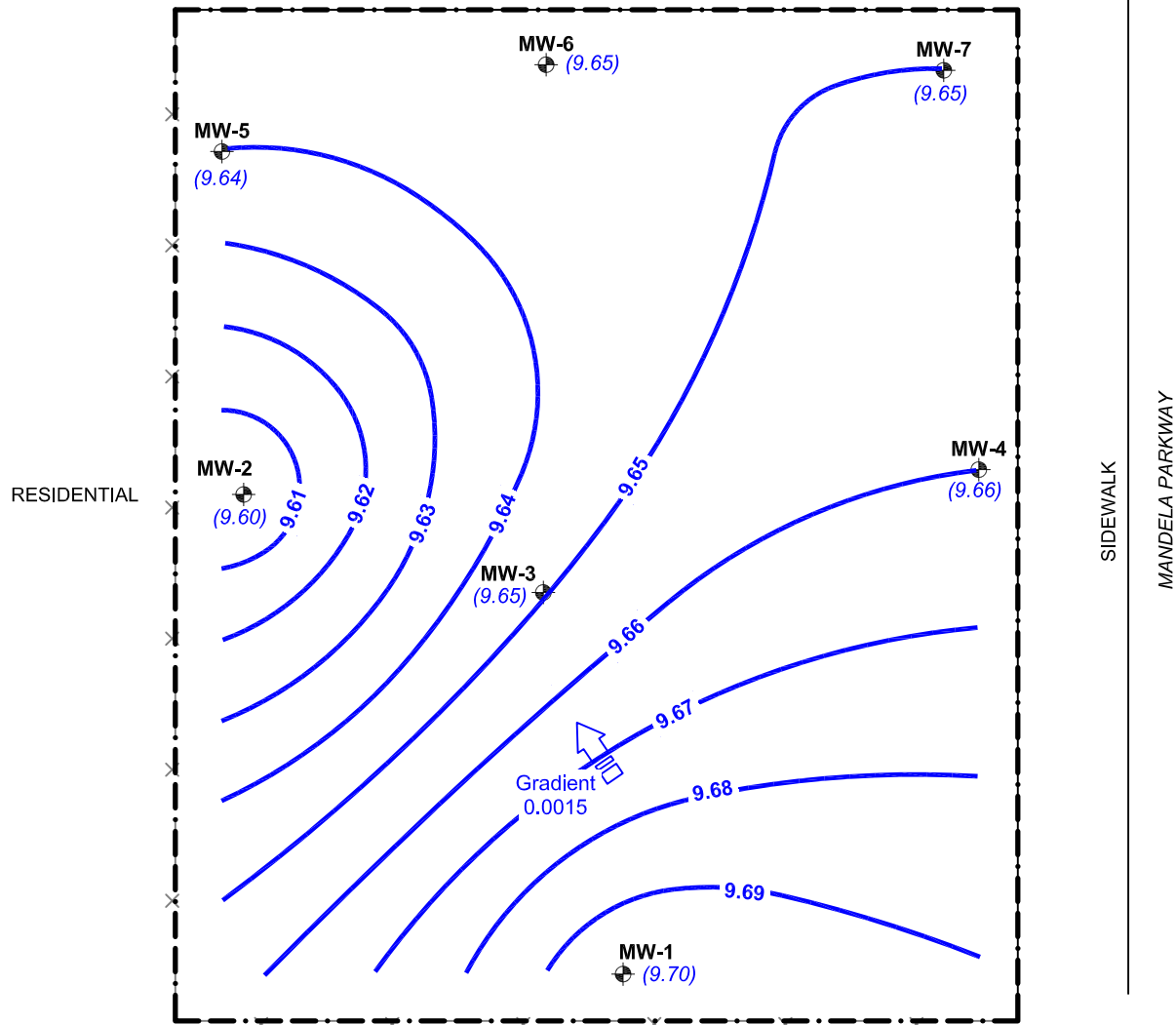


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Figure 3
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (JULY 2009)

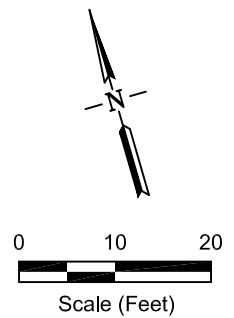
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- 9.68 Groundwater Elevation Contour (ft.-MSL)
- (9.65) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient



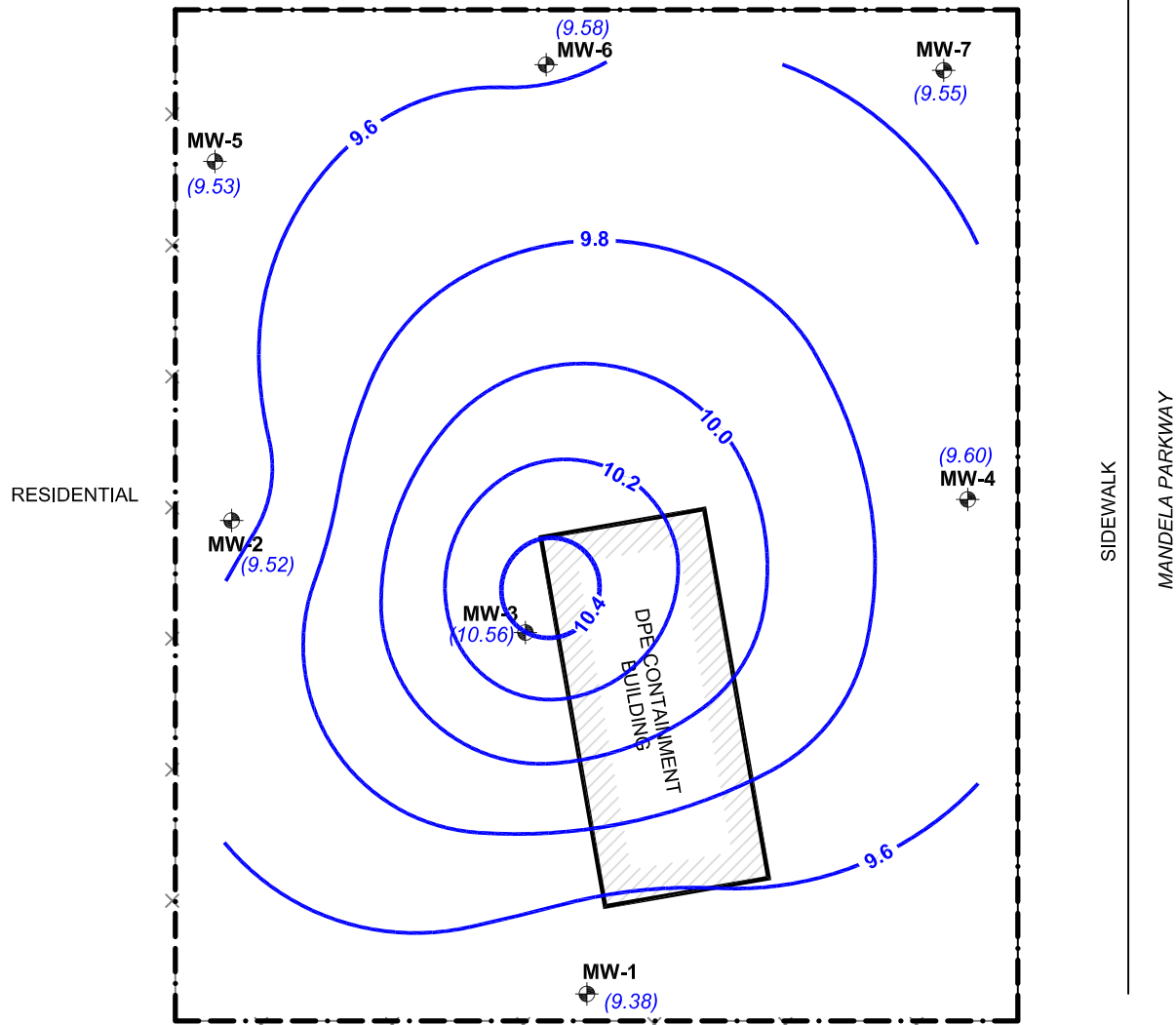
C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 4 - GW-11-09 Jan 10, 2011 - 7:27pm

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Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (NOVEMBER 2009)

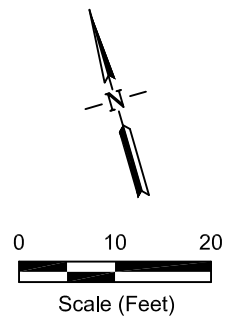
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1** Monitoring Well Location
- (9.38)** Groundwater Elevation (ft.-MSL)
- 9.8** Groundwater Elevation Contour at Groundwater Monitoring Wells

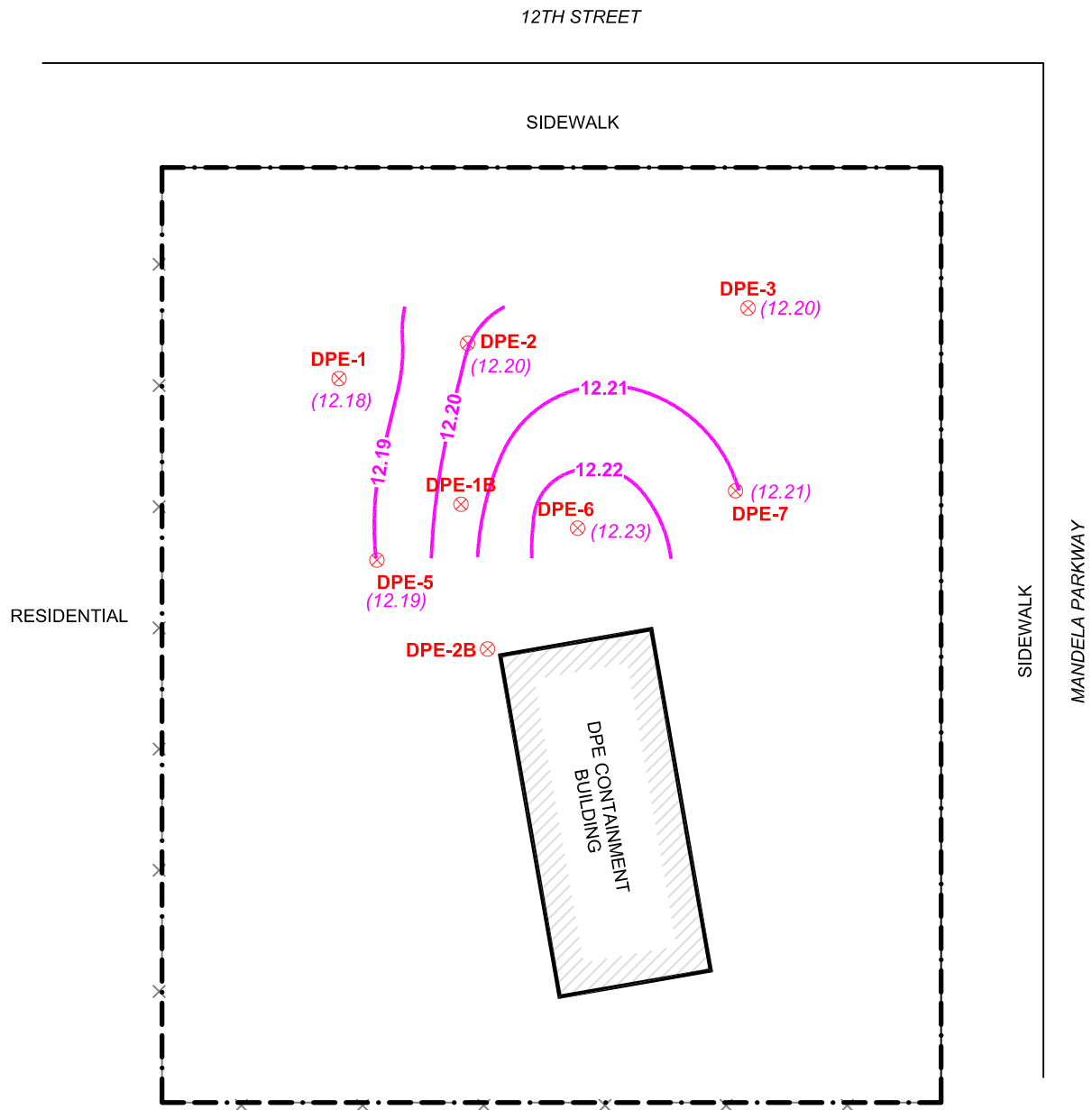


C:\Work\EnviroCAD\IES\1409-1417 12th Street\Corrective Action Closure Verification\Figure 2-6.dwg Layout: Fig 3 - GW-06-11 May 04, 2012 - 5:16pm

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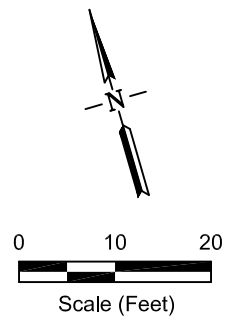
Figure 3
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - GROUNDWATER MONITORING WELLS (JUNE 2011)

C:\Work\Enviro\CAD\IES\1409-1417 12th Street\Corrective Action Closure Verification\Figure 2-6.dwg Layout: Fig 4 - GW_DPE_wells_06-11 May 04, 2012 - 8:00pm



EXPLANATION:

- Approximate Property Boundary
- DPE Well Location
- Groundwater Elevation at DPE Wells
- Groundwater Elevation Contour at DPE Wells

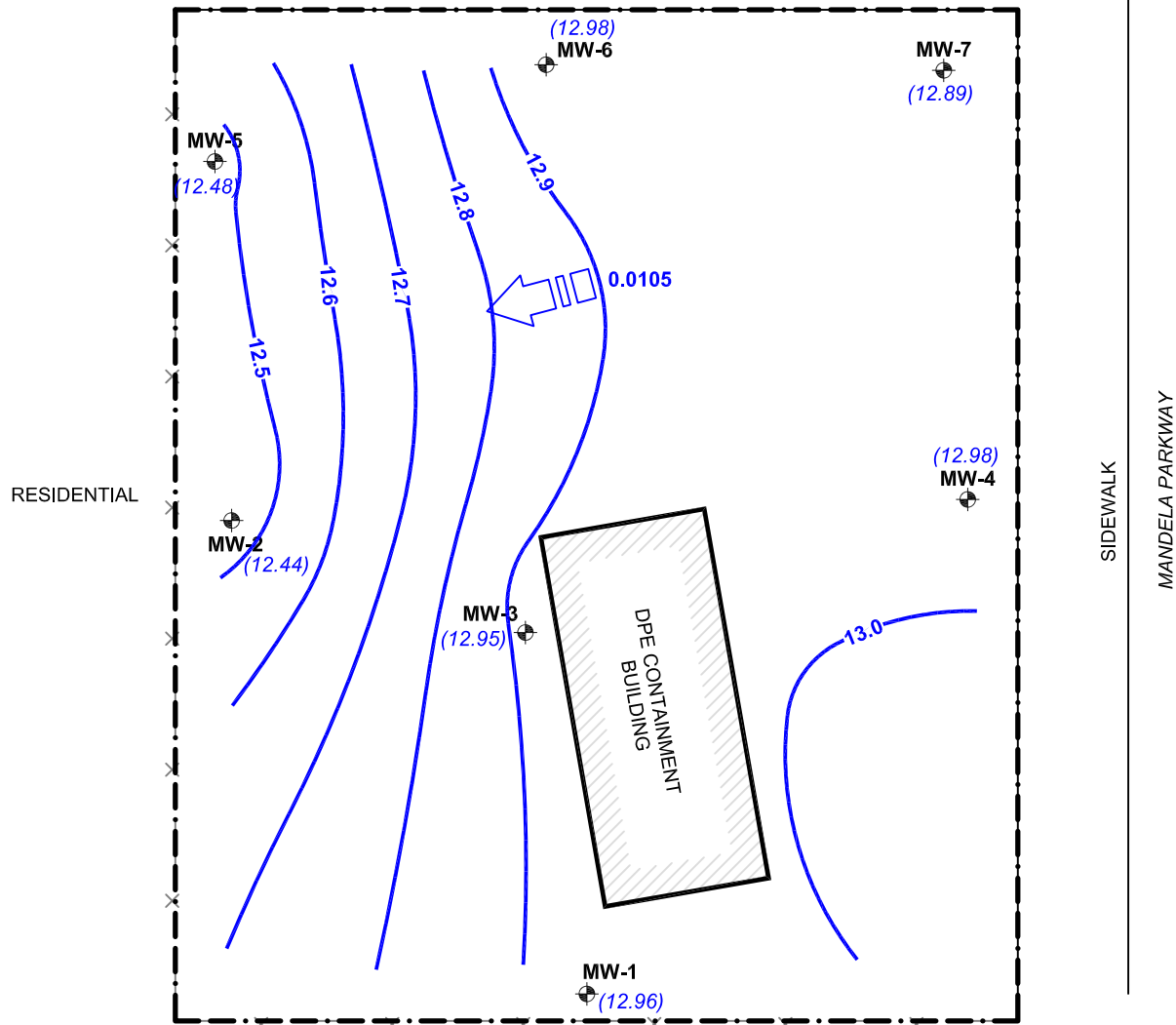


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Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - DPE WELLS (JUNE 2011)

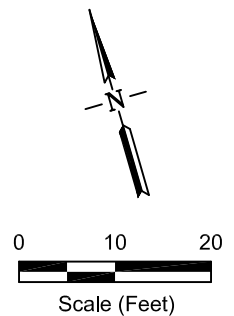
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- (12.95) Groundwater Elevation (ft.-MSL)
- 10.2 Groundwater Elevation Contour at Groundwater Monitoring Wells



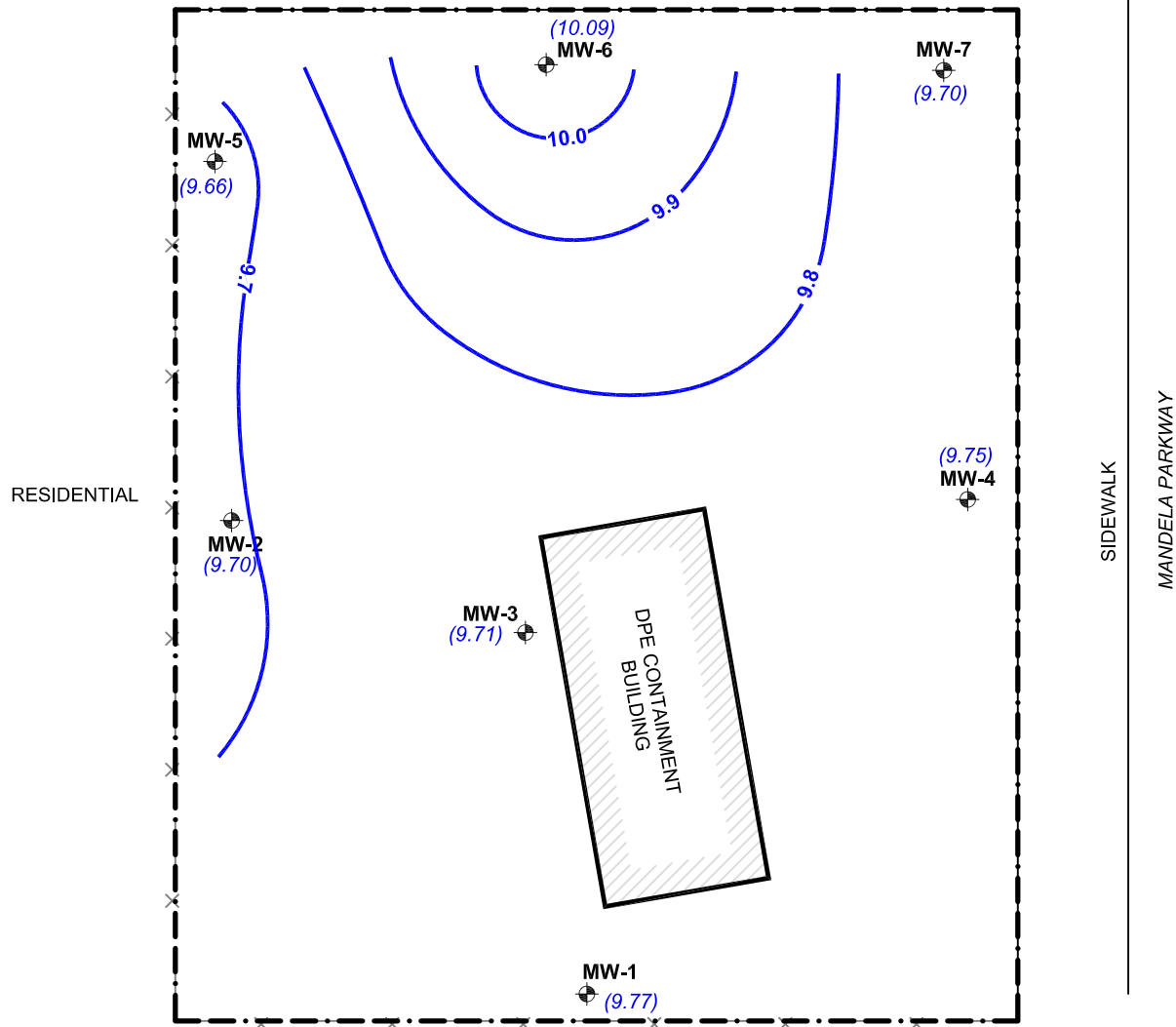
C:\Work\EnviroCAD\IES\1409-1417 12th Street\Corrective Action Closure Verification\Figure 3-6_April2012.dwg Layout: Fig 3 - GW-04-12 Aug 13, 2012 - 9:16pm

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Figure 3
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - GROUNDWATER MONITORING WELLS (APRIL 2012)

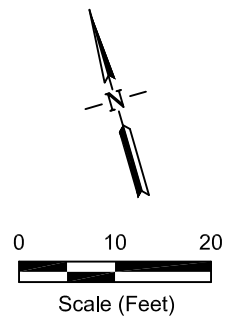
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- (12.95) Groundwater Elevation (ft.-MSL)
- 10.2 Groundwater Elevation Contour at Groundwater Monitoring Wells

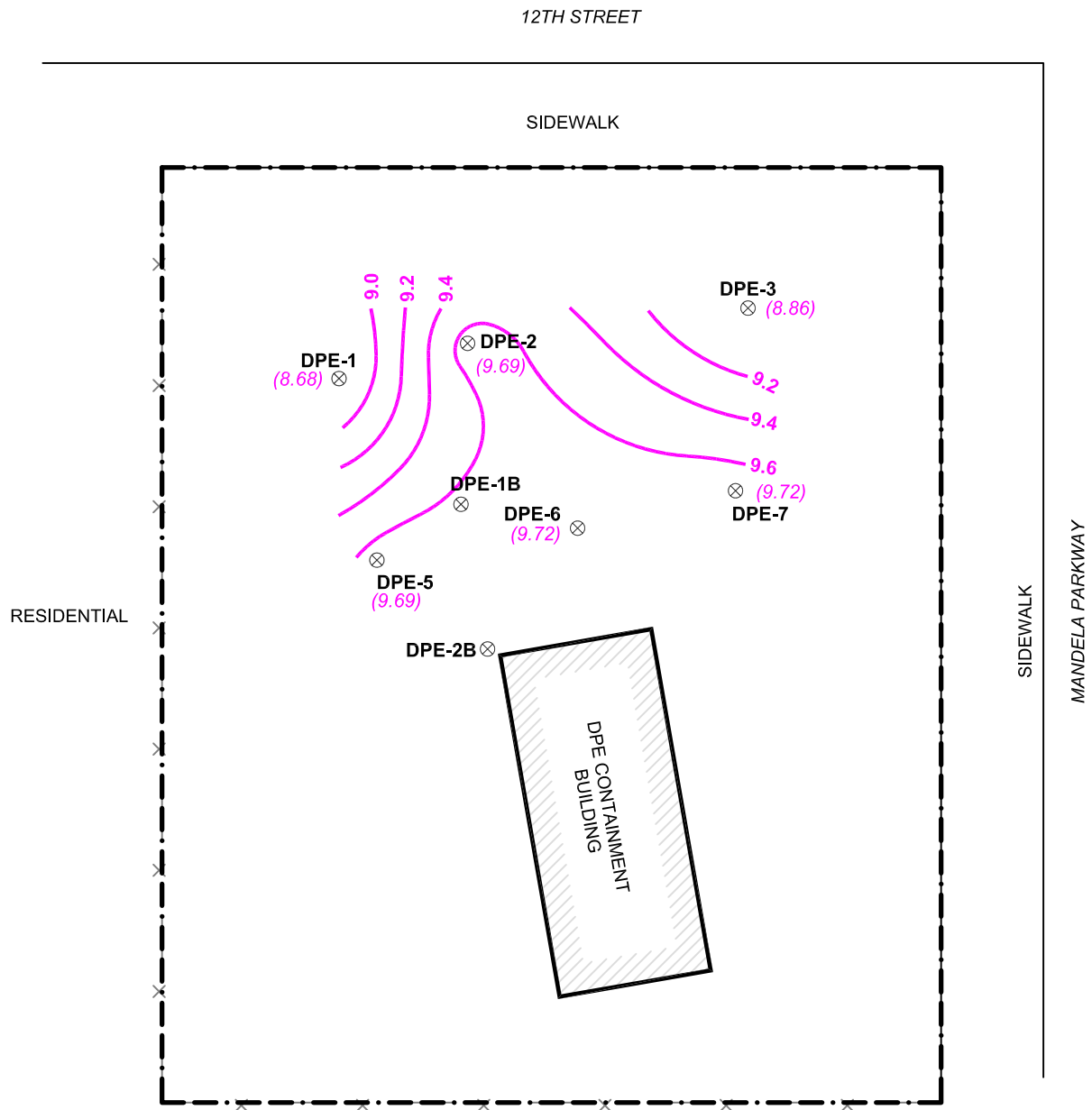


D:\Work\EnviroCAD\IES\1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 2-4_August 2012.dwg Layout: Fig 3 - GW-04-12 Mar 16, 2013 - 7:27pm

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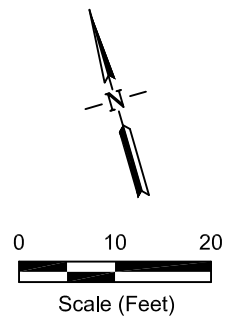
Figure 3
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - GROUNDWATER MONITORING WELLS (AUGUST 2012)

D:\Work\EnviroCAD\IES\1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 2-4_August 2012.dwg Layout: Fig 4 - GW_DPE_wells_04-12 Mar 16, 2013 - 7:25pm



EXPLANATION:

- Approximate Property Boundary
- DPE Well Location
- Groundwater Elevation at DPE Wells
- Groundwater Elevation Contour at DPE Wells

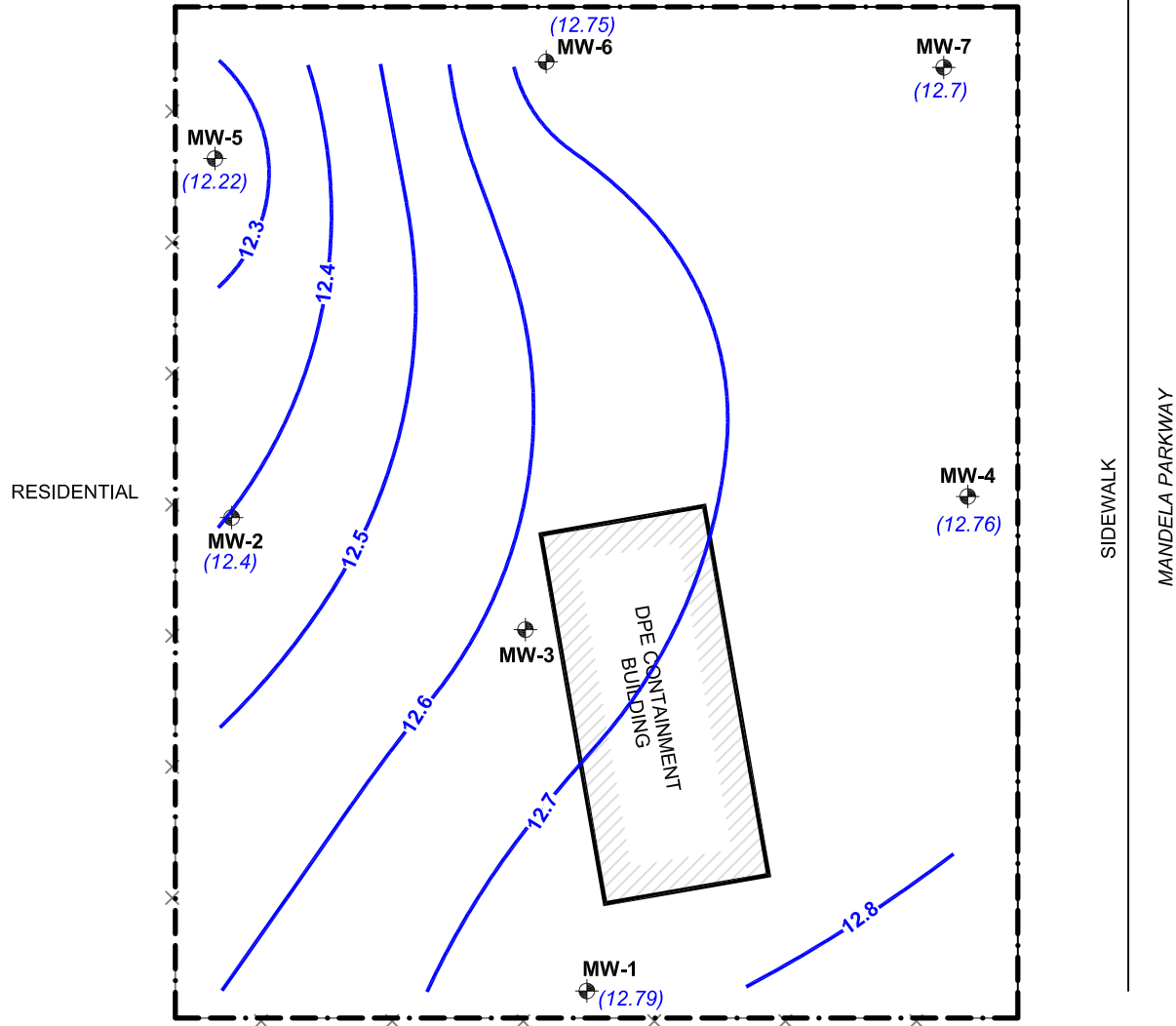


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Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - DPE WELLS (AUGUST 2012)

12TH STREET

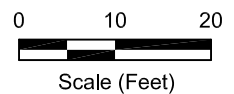
SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- (12.79) Groundwater Elevation (ft.-MSL)
- 13.4 Groundwater Elevation Contour at Groundwater Monitoring Wells

Note: Erroneous groundwater elevation at MW-3 was not used in contour map

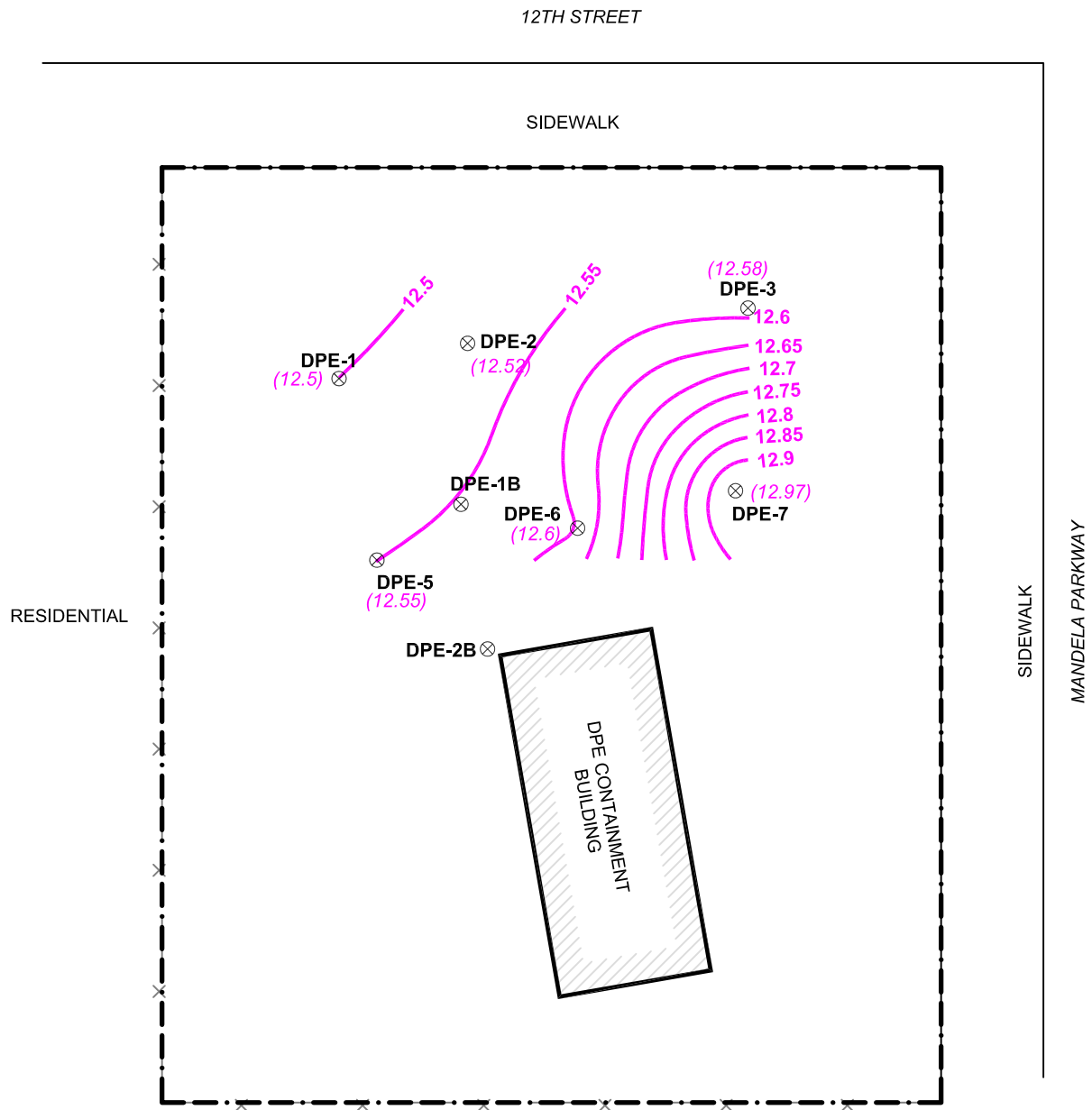


D:\Work\EnviroCAD\IES\1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 5-6_January 2013.dwg Layout: Fig 5 - GW-01-13 Mar 17, 2013 - 12:52pm

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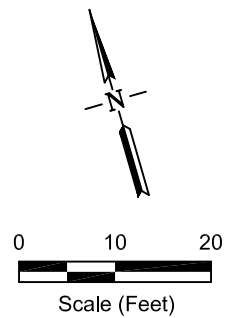
Figure 5
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - GROUNDWATER MONITORING WELLS (JANUARY 2013)

D:\Work\EnviroCAD\IES\1409-1417 12th Street\2nd SemiAnnual 2012-2013\Figure 5-6_GW_DPE_wells_01-13 Mar 17, 2013 - 1:01pm



EXPLANATION:

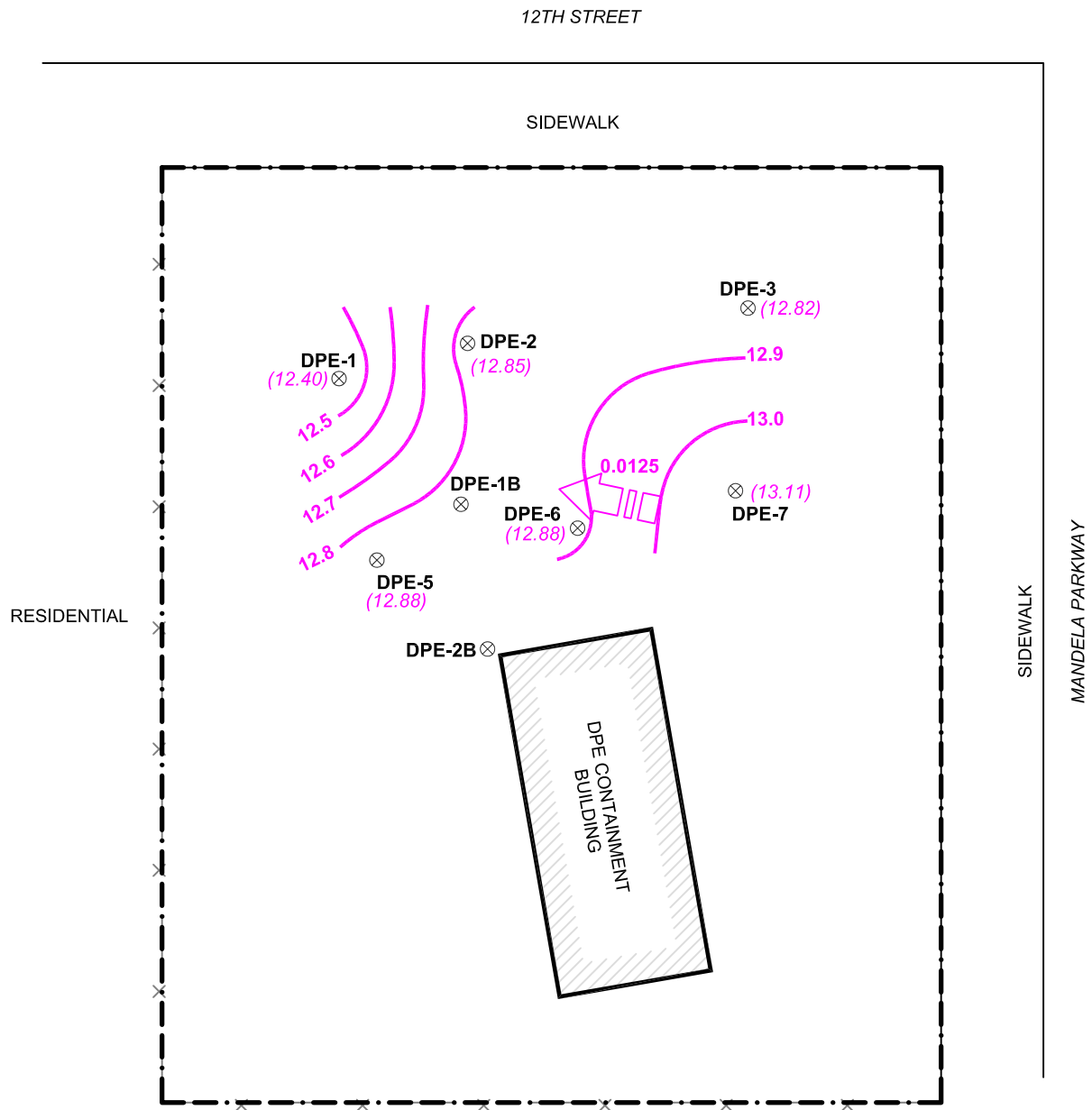
- Approximate Property Boundary
- DPE Well Location
- Groundwater Elevation at DPE Wells
- Groundwater Elevation Contour at DPE Wells





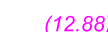

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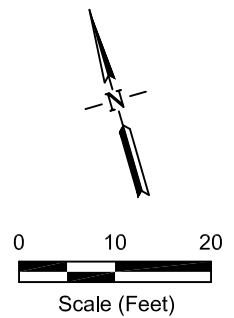
Figure 6
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - DPE WELLS (JANUARY 2013)

C:\Work\EnviroCAD\IES\1409-1417 12th Street\Corrective Action Closure Verification\Figure 3-6_April2012.dwg Layout: Fig 4 - GW_DPE_wells_04-12 Aug 13, 2012 - 9:18pm



EXPLANATION:

-  Approximate Property Boundary
-  DPE Well Location
-  (12.88) Groundwater Elevation at DPE Wells
-  —12.8— Groundwater Elevation Contour at DPE Wells

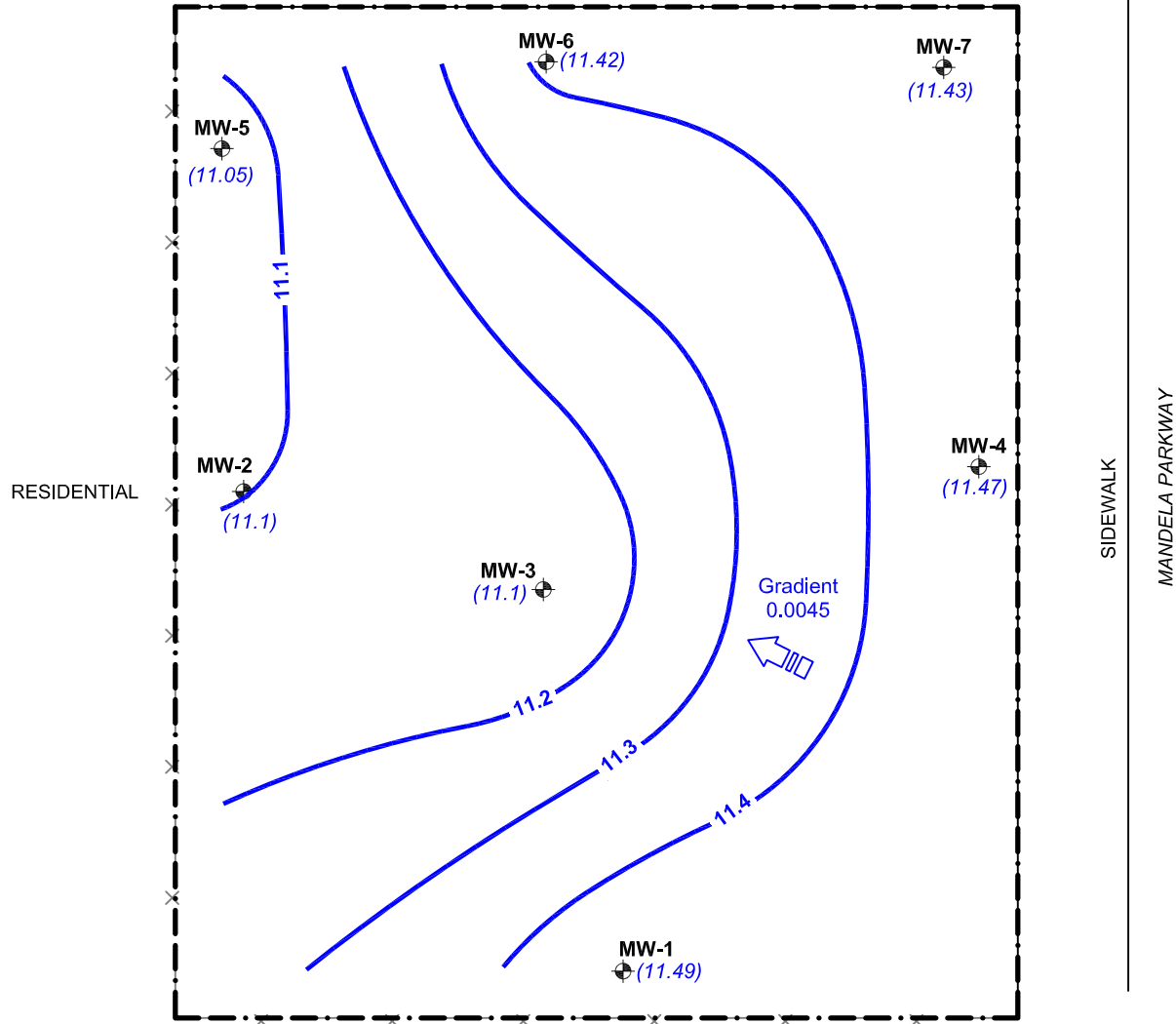


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Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP - DPE WELLS (APRIL 2012)

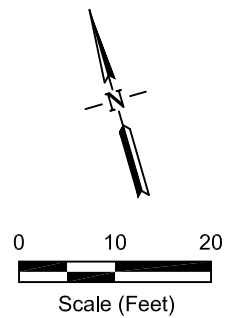
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- 11.4 Groundwater Elevation Contour (ft.-MSL)
- (11.49) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient



C:\Work\EnviroCAD\IES\1409-1417 12th Street\1-2Q-09 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 4 - GW-04-09 Dec 21, 2010 - 8:57pm

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Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (APRIL 2009)

ATTACHMENT 7

Table 1
Groundwater Monitoring Well, DPE Well, and SV Well Destruction Construction Details
1409-1417 12th Street Oakland, California

Well Number	TOC	Well Location		Total Depth Drill-Out (feet, bgs)	Total Depth of Well (feet, bgs)	Casing Diameter (inches)	Casing Material (gauge/type)	Screened Interval (feet, bgs)	Slot Size (inches)	Filter Pack Size	Bentonite Seal (feet, bgs)	Sanitary Seal (feet, bgs)
	Elevation (feet)	Northing	Easting									
	NAVD88	NAD83	NAD83									
MW-1	21.49	37.8088602	-122.2926636	15	13.92	2	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
MW-2	20.61	37.8090210	-122.2927461	15	13.91	2	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
MW-3	21.09	37.8089672	-122.2926514	15	13.59	2	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
MW-4	20.35	37.8089714	-122.2924800	15	13.90	2	SCH40 PVC	BOH - 6	0.020	#3	5 - 4	4 - Surface
MW-5	20.05	37.8091233	-122.2927183	15	13.87	2	SCH40 PVC	BOH - 6	0.020	#3	5 - 4	4 - Surface
MW-6	19.67	37.8081279	-122.2925899	15	14.44	2	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
MW-7	19.88	37.8090964	-122.2924472	15	13.81	2	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
MW-8*	20.71	37.8090245	-122.2926416	29	27.55	2	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
GW-1	20.23	37.8090591	-122.2926359	19	17.05	4	SCH40 PVC	BOH - 6	0.010	#2/12	5 - 4	4 - Surface
GW-2	20.57	37.8090554	-122.2926970	19	17.00	4	SCH40 PVC	BOH - 10	0.010	#2/12	9 - 8	8- Surface
GW-3	20.57	37.8090566	-122.2925325	20	17.98	4	SCH40 PVC	BOH - 10	0.010	#2/12	9 - 8	8- Surface
DPE-1	19.52	37.8090900	-122.2926713	22	20	4	SCH40 PVC	BOH - 10	0.010	#2/12	9 - 8	8- Surface
DPE-1B	19.85	37.8090414	-122.2926366	29	27	4	SCH40 PVC	BOH - 10	0.010	#2/12	9 - 8	8- Surface
DPE-2	19.51	37.8090907	-122.2926179	22	20	4	SCH40 PVC	BOH - 10	0.010	#2/12	9 - 8	8- Surface
DPE-2B	20.00	37.8089959	-122.2926414	29	27	4	SCH40 PVC	BOH - 6	0.020	#3	5 - 4	4 - Surface
DPE-3	19.4	37.8090791	-122.2925055	22	20	4	SCH40 PVC	BOH - 6	0.020	#3	5 - 4	4 - Surface
DPE-5	20.02	37.8090318	-122.2926756	22	20	4	SCH40 PVC	BOH - 6	0.020	#3	5 - 4	4 - Surface
DPE-6	19.54	37.8090250	-122.2925940	22	20	4	SCH40 PVC	BOH - 10	0.020	#3	7 - 8	7- Surface
DPE-7	19.76	37.8090239	-122.2925291	22	20	4	SCH40 PVC	BOH - 10	0.020	#3	7-8	7 - Surface
CSV-1	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface
CSV-2	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface
CSV-3	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface
CSV-4	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface
CSV-5	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface
CSV-6	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface
CSV-7	NA	NA	NA	7	5	1/8	Teflon Tubing	BOH - 5	Aquarium Filter	#3	5 - 4	4- Surface

Notes:

TOC - top of casing

BOH - bottom of well

feet, NAVD88 - feet relative to NAVD88

feet, bgs - feet below ground surface

Groundwater Wells GWT-1 and GWT-2 are located at 1267 Filbert Street and are not shown on Figure 2. Although the 1267 Filbert Street property was granted corrective action closure in 2008, these wells were retained for use in the groundwater monitoring program for 1300 Filber Street.

Table 1
Groundwater Elevations_Groundwater Monitoring Wells
August 2012 & January 2013 Groundwater Monitoring Report
1409-1417 12th Street
Oakland, California

Well No.	Top-of-Casin Elevation (feet, MSL) ¹	Date Measured	Coating Prod Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet, MSL) ¹
MW-1	21.56	01/06/13	0.0	8.77	12.79
	21.56	08/07/12	0.0	11.79	9.77
		04/23/12	0.0	8.60	12.96
		11/29/11	0.0	9.21	12.35
	21.29	06/08/11	0.0	11.91	9.38
		12/30/10	0.0	9.48	11.81
		07/27/10	0.0	11.49	9.80
		11/06/09	0.0	11.79	9.50
		07/26/09	0.0	11.81	9.48
		04/29/09	0.0	10.00	11.29
		01/25/09	0.0	12.40	8.89
		10/25/08	0.0	12.68	8.61
		07/27/08	0.0	11.99	9.30
		04/30/08	0.0	10.52	10.77
	MW-2	20.68	01/06/13	0.0	8.28
20.68		08/07/12	0.0	10.98	9.70
		04/23/12	0.0	8.24	12.44
		11/29/11	0.0	8.39	12.29
20.61		06/08/11	0.0	11.09	9.52
		12/30/10	0.0	8.53	12.08
		07/27/10	0.0	10.64	9.97
		11/06/09	0.0	11.01	9.60
		07/26/09	0.0	10.99	9.62
		04/29/09	0.0	9.51	11.10
		01/25/09	0.0	11.54	9.07
		10/25/08	0.0	11.90	8.71
		07/27/08	0.0	11.20	9.41
		04/30/08	0.0	9.64	10.97
MW-3		21.16	01/06/13	0.0	7.48
	21.16	08/07/12	0.0	11.45	9.71
		04/23/12	0.0	8.21	12.95
		11/29/11	0.0	8.87	12.29
	21.09	06/08/11	0.0	10.53	10.56
		12/30/10	0.0	8.97	12.12
		07/27/10	0.0	11.10	9.99
		11/06/09	0.0	11.44	9.65
		07/26/09	0.0	11.42	9.67
		04/29/09	0.0	9.70	11.39
		01/25/09	0.0	12.00	9.09
		10/25/08	0.0	12.36	8.73
		07/27/08	0.0	11.65	9.44
		04/30/08	0.0	10.20	10.89

Table 1
Groundwater Elevations_Groundwater Monitoring Wells
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MW-4	20.40	01/06/13	0.0	7.64	12.76
	20.40	08/07/12	0.0	10.65	9.75
		04/23/12	0.0	7.42	12.98
		11/29/11	0.0	8.08	12.32
	20.35	06/08/11	0.0	10.75	9.60
		12/30/10	0.0	8.07	12.28
		07/27/10	0.0	10.31	10.04
		11/06/09	0.0	10.69	9.66
		07/26/09	0.0	10.65	9.70
		04/29/09	0.0	8.88	11.47
		01/25/09	0.0	11.22	9.13
		10/25/08	0.0	11.55	8.80
		07/27/08	0.0	10.85	9.50
		04/30/08	0.0	9.43	10.92
MW-5	20.12	01/06/13	0.0	7.90	12.22
	20.12	08/07/12	0.0	10.46	9.66
		04/23/12	0.0	7.64	12.48
		11/29/11	0.0	7.90	12.22
	20.05	06/08/11	0.0	10.52	9.53
		12/30/10	0.0	8.04	12.01
		07/27/10	0.0	10.10	9.95
		11/06/09	0.0	10.41	9.64
		07/26/09	0.0	10.42	9.63
		04/29/09	0.0	9.00	11.05
		01/25/09	0.0	10.98	9.07
		10/25/08	0.0	11.37	8.68
		07/27/08	0.0	10.68	9.37
		04/30/08	0.0	9.10	10.95
MW-6	20.12	01/06/13	0.0	7.37	12.75
	20.12	08/07/12	0.0	10.03	10.09
		04/23/12	0.0	7.14	12.98
		11/29/11	0.0	7.90	12.22
	19.67	06/08/11	0.0	10.09	9.58
		12/30/10	0.0	7.57	12.10
		07/27/10	0.0	9.73	9.94
		11/06/09	0.0	10.02	9.65
		07/26/09	0.0	10.03	9.64
		04/29/09	0.0	8.25	11.42
		01/25/09	0.0	10.58	9.09
		10/25/08	0.0	10.92	8.75
		07/27/08	0.0	10.25	9.42
		04/30/08	0.0	8.60	11.07
MW-7	19.95	01/06/13	0.0	7.25	12.70
	19.95	08/07/12	0.0	10.25	9.70
		04/23/12	0.0	7.06	12.89
		11/29/11	0.0	7.72	12.23
	19.88	06/08/11	0.0	10.33	9.55
		12/30/10	0.0	7.97	11.91
		07/27/10	0.0	9.89	9.99
		11/06/09	0.0	10.23	9.65
		07/26/09	0.0	10.21	9.67
		04/29/09	0.0	8.45	11.43
		01/25/09	0.0	10.79	9.09
		10/25/08	0.0	11.11	8.77
		07/27/08	0.0	10.41	9.47
		04/30/08	0.0	8.96	10.92

Table 1
Groundwater Elevations_Groundwater Monitoring Wells
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		04/23/12	0.0	8.10	-8.10			
		11/29/11	0.0	8.70	-8.70			
	20.71	06/08/11	0.0	11.32	9.39			
		12/30/10	0.0	8.75	11.96			
		07/27/10	0.0	10.93	9.78			
		11/06/09	NM	NM	NM			
		07/26/09	0.0	11.07	9.64			
		04/29/09	0.0	10.68	10.03			
		01/25/09	0.0	11.63	9.08			
		10/25/08	0.0	12.00	8.71			
		07/27/08	0.0	11.29	9.42			
		04/30/08	0.0	9.82	10.89			
	GW-1	20.29	01/06/13	0.0	7.87	12.42		
		20.29	08/07/12	0.0	11.60	8.69		
			04/23/12	0.0	7.43	12.86		
			11/29/11	0.0	8.07	12.22		
		20.23	06/08/11	0.0	10.68	9.55		
			12/30/10	0.0	8.12	12.11		
			07/27/10	0.0	10.26	9.97		
			11/06/09	NM	NM	NM		
			07/26/09	0.0	10.59	9.64		
			04/29/09	0.0	8.86	11.37		
			01/25/09	0.0	11.15	9.08		
			10/25/08	0.0	11.51	8.72		
			07/27/08	0.0	10.81	9.42		
			04/30/08	0.0	9.34	10.89		
		GW-2	20.64	01/06/13	0.0	8.11	12.53	
			20.64	08/07/12	0.0	11.60	9.04	
				04/23/12	0.0	7.80	12.84	
				11/29/11	0.0	8.35	12.29	
			20.57	06/08/11	0.0	11.03	9.54	
				12/30/10	0.0	8.48	12.09	
				07/27/10	0.0	10.61	9.96	
				11/06/09	0.0	10.93	9.64	
				07/26/09	0.0	11.21	9.36	
				04/29/09	0.0	8.80	11.77	
				01/25/09	0.0	11.50	9.07	
				10/25/08	0.0	11.82	8.75	
				07/27/08	0.0	11.16	9.41	
				04/30/08	0.0	9.70	10.87	
			GW-3	20.28	01/06/13	0.0	7.64	12.64
				20.28	08/07/12	0.0	10.57	9.71
					04/23/12	0.0	7.35	12.93
					11/29/11	0.0	8.06	12.22
				20.57	06/08/11	0.0	10.67	9.90
					12/30/10	0.0	7.67	12.90
					07/27/10	0.0	10.24	10.33
					11/06/09	0.0	10.64	9.93
					07/26/09	0.0	10.89	9.68
					04/29/09	0.0	9.16	11.41
					01/25/09	0.0	11.49	9.08
					10/25/08	0.0	11.92	8.65
					07/27/08	0.0	11.12	9.45
					04/30/08	0.0	9.60	10.97

MSL= Mean Sea Level
 NM= Not measured or gauged

Table 2
Groundwater Elevations_Dual-Phase Vacuum Extraction Wells
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Well No.	Top-of-Casing Elevation (feet, MSL) ¹	Date Measured	Floating Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet, MSL) ¹
DPE-1	19.54	01/06/13	0.0	7.04	12.50
	19.54	08/07/12	0.0	10.86	8.68
		04/23/12	0.0	7.14	12.40
		11/29/11	0.0	9.92	9.62
		06/08/11	0.0	7.34	12.18
19.52	10/11/10	0.0	10.44	9.08	
	DPE-1B	19.88	01/06/13	0.0	7.34
19.88		08/07/12	0.0	10.20	9.68
		04/23/12	0.0	7.03	12.48
		11/29/11	0.0	10.25	9.63
		06/08/11	0.0	7.65	12.20
19.85	10/11/10	0.0	10.75	9.10	
DPE-2	19.52	01/06/13	0.0	7.00	12.52
	19.52	08/07/12	0.0	9.83	9.69
		04/23/12	0.0	6.67	12.85
		11/29/11	0.0	9.93	9.59
		06/08/11	0.0	7.31	12.20
19.51	10/11/10	0.0	10.41	9.10	
DPE-2B	20.03	01/06/13	0.0	7.44	12.59
	20.03	08/07/12	0.0	10.31	9.72
		04/23/12	0.0	7.62	12.41
		11/29/11	0.0	10.40	9.63
		06/08/11	0.0	7.78	12.22
20.00	10/11/10	0.0	10.88	9.12	
DPE-3	19.43	01/06/13	0.0	6.85	12.58
	19.43	08/07/12	0.0	10.57	8.86
		04/23/12	0.0	6.61	12.82
		11/29/11	0.0	9.80	9.63
		06/08/11	0.0	7.20	12.20
19.40	10/11/10	0.0	10.28	9.12	
DPE-5	20.05	01/06/13	0.0	7.50	12.55
	20.05	08/07/12	0.0	10.36	9.69
		04/23/12	0.0	7.17	12.88
		11/29/11	0.0	10.45	9.60
		06/08/11	0.0	7.83	12.19
20.02	10/11/10	0.0	10.92	9.10	
DPE-6	19.53	01/06/13	0.0	6.93	12.60
	19.53	08/07/12	0.0	9.81	9.72
		04/23/12	0.0	6.65	12.88
		11/29/11	0.0	9.90	9.63
		06/08/11	0.0	7.31	12.23
19.54	10/11/10	0.0	10.42	9.12	
DPE-7	19.79	01/06/13	0.0	6.82	12.97
	19.79	08/07/12	0.0	10.07	9.72
		04/23/12	0.0	6.68	13.11
		11/29/11	0.0	10.40	9.39
		06/08/11	0.0	7.55	12.21
19.76	10/11/10	0.0	10.62	9.14	

Notes: MSL=Mean Sea Level
Re-surveyed DPE, MW, and GW Wells on 4-12-2012 applied to November 29, 2011 gauged measurements

Table 3
Groundwater Monitoring Well Analytical Results_ August 2012 and January 2013 Groundwater Monitoring Report
1409-1417 12th Street,
Oakland, California

Sample ID	Date Sampled	TPHg (ug/L)	TPHd (ug/L)	TPHmo (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
MW-1	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/02/11	<50	<100	<210	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	76 Y	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
	12/30/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	07/28/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
	11/06/09	<55	<100	<200	<0.55	<0.55	<0.55	<1.6	<0.55	<5.5	<0.55	<0.55	<0.55
	07/26/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	01/24/09	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	10/25/08	95x	<100	<200	1.68	1.17	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<64	<100	<200	<0.645	<0.645	<0.645	<1.94	<0.645	<12.9	<0.645	<0.645	<0.645
	04/30/08	54x	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	NA	NA
	MW-2	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50
04/23/12		<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
12/01/11		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
06/08/11		<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
12/30/10		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
7/27/010		<50	<120	<240	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
11/06/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<0.50	<0.50	<0.50
07/26/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
04/28/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
01/24/09		<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
10/25/08		71x	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
07/27/08		<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.0500	<0.500
04/30/08		<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	NA	NA
MW-3		01/07/13	<50	250	410	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/02/11	<50	<100	<210	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
	12/30/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	07/27/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
	11/06/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<0.50	<0.50	<0.50
	07/26/09	<50	<120	<230	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	01/24/09	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	10/25/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<58	<100	<200	<0.580	<0.580	<0.580	<1.74	<0.580	<11.6	<0.580	<0.580	<0.580
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	NA	NA
	<i>Residential ESL (DWS)</i>		<i>100</i>	<i>100</i>	<i>100</i>	<i>1</i>	<i>40</i>	<i>30</i>	<i>20</i>	<i>5</i>	<i>12</i>	<i>na</i>	<i>na</i>
<i>Residential ESL (NDWS)</i>		<i>500</i>	<i>640</i>	<i>640</i>	<i>46</i>	<i>130</i>	<i>290</i>	<i>100</i>	<i>1,800</i>	<i>18,000</i>	<i>na</i>	<i>na</i>	<i>na</i>

Table 3
Groundwater Monitoring Well Analytical Results_ August 2012 and January 2013 Groundwater Monitoring Report
1409-1417 12th Street,
Oakland, California

Sample ID	Date Sampled	TPHg (ug/L)	TPHd (ug/L)	TPHmo (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MtBE (ug/L)	TBA (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
MW-4	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/02/11	<50	<100	<210	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
	12/30/10	<50	<150	<250	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	07/27/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
	11/06/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<0.50	<0.50	<0.50
	07/26/09	<50	<110	<220	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	01/24/09	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10	<0.500	<0.500	<0.500
	10/25/08	61x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10	<0.500	<0.0500	<0.500
	04/30/08	<58	<100	<200	<0.610	<0.610	<0.610	<1.83	<0.610	NA	NA	NA	NA
	MW-5	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50
04/23/12		<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
12/01/11		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
06/08/11		<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
12/30/10		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
07/27/10		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
11/06/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<0.50	<0.50	<0.50
07/26/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
04/28/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
01/24/09		<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
10/25/08		71x	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
07/27/08		<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.0500	<0.500
04/30/08		<58	<100	<200	<0.580	<0.580	<0.580	<1.50	<0.580	NA	NA	NA	NA
MW-6		01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/02/11	<50	<110	<220	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5		<10	<0.5	<0.5	<0.5
	12/30/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	07/28/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
	11/06/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<0.50	<0.50	<0.50
	07/26/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	01/24/09	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	10/25/08	72x	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	53x	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	NA	NA
	<i>Residential ESL (DWS)</i>		<i>100</i>	<i>100</i>	<i>100</i>	<i>1</i>	<i>40</i>	<i>30</i>	<i>20</i>	<i>5</i>	<i>12</i>	<i>na</i>	<i>na</i>
<i>Residential ESL (NDWS)</i>		<i>500</i>	<i>640</i>	<i>640</i>	<i>46</i>	<i>130</i>	<i>290</i>	<i>100</i>	<i>1,800</i>	<i>18,000</i>	<i>na</i>	<i>na</i>	<i>na</i>

Table 3
Groundwater Monitoring Well Analytical Results_ August 2012 and January 2013 Groundwater Monitoring Report
1409-1417 12th Street,
Oakland, California

Sample ID	Date Sampled	TPHg (ug/L)	TPHd (ug/L)	TPHmo (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MtBE (ug/L)	TBA (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
MW-7	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<200	<0.5	<0.5	<0.5	<1.0/0.50	<0.5	<10	<0.5	<0.5	<0.5
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
	12/30/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	07/28/10	<50	<120	<230	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
	11/06/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10.0	<0.50	<0.50	<0.50
	07/26/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	<50	<100	293x	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
	01/24/09	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	10/25/08	71x	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.50	<0.500	NA	NA	NA	NA
	MW-8	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50
08/07/12		<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
04/23/12		<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
12/01/11		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
06/08/11		<50	71Y	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
12/30/10		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
10/12/10		79x	<100	<200	<0.50	1.0	1.6	<2.5/<2.2	<0.50	NA	NA	NA	<0.50
07/28/10		<50	<110	<230	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
11/12/09		220x	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10.0	<0.50	<0.50	<0.50
07/26/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
04/28/09		110	156x	909x	1.4	0.81	2.4	6.1	<0.50	<10	<0.50	<0.50	<0.50
01/24/09		190x	<100	<200	2.10	1.47	4.94	11.8	<0.500	<10.0	<0.500	<0.500	<0.500
10/25/08		240x	<100	<200	1.41	<0.500	<0.500	3.13	<0.500	<10.0	<0.500	<0.500	<0.500
07/27/08		198x	<100	<200	5.37	1.25	3.77	13.3	<0.500	<10.0	<0.500	<0.0500	<0.500
04/30/08	1049x	161x	<200	13.9	12.4	9.76	160	<0.500	NA	NA	NA	NA	
GW-1	01/07/13	<50	470	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	08/07/12	<50	<100	<400	0.54	<0.50	<0.50	<0.50/0.50	<0.17	7.8	<0.50	<0.50	<0.50
	04/23/12	88	66Y	<300	0.92	<0.50	0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	66	<110	<220	0.52	<0.50	0.85	1.4/3.1	<0.50	11	<0.50	<0.50	<0.50
	06/08/11	230	210Y	<300	1.8	0.6	4.5	11/8.2	<0.5	<10	<0.5	<0.5	<0.5
	12/30/10	<50	100	<200	<0.50	<0.50	<0.50	<1.0/0.93	<0.50	<5.0	<0.50	<0.50	<0.50
	10/12/10	120x	<100	<200	0.71	0.70	1.3	2.1/1.9	<0.50	NA	NA	NA	NA
	07/28/10	89x	<100	<200	0.65	<0.50	<0.50	1.0/1.3	<0.50	NA	NA	NA	NA
	11/12/09	120x	138x	<200	3.9	<0.50	2.1	12	<0.50	<10.0	<0.50	<0.50	<0.50
	07/26/09	5,700	540x	<200	1,100	54	120	100	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	22,000	3,010x	<800	3,000	580	830	2,100	<22	<440	<22	<22	<22
	01/24/09	9,900	767x	<200	1,600	174	315	915	<4.40	<88.0	<4.40	<4.40	<4.40
	10/25/08	7200x	1020x	296x	1,010	161	89.8	693	<2.20	<44.0	<2.20	<2.20	<2.20
	07/27/08	18,000	1060x	<200	3,360	146	533	1,450	<22.0	<440	<22.0	<22.0	<22.0
04/30/08	37,000	7.25x	<2000	2,400	769	378	3,450	<22.0	NA	NA	NA	NA	
Residential ESL (DWS)		100	100	100	1	40	30	20	5	12	na	na	na
Residential ESL (NDWS)		500	640	640	46	130	290	100	1,800	18,000	na	na	na

Table 3
Groundwater Monitoring Well Analytical Results_ August 2012 and January 2013 Groundwater Monitoring Report
1409-1417 12th Street,
Oakland, California

Sample ID	Date Sampled	TPH _g (ug/L)	TPH _d (ug/L)	TPH _{mo} (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MtBE (ug/L)	TBA (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
GW-2	01/08/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.5/0.5	<0.5	<10	<0.5	<0.5	<0.5
	12/30/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	07/28/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
	11/06/09	<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10.0	<0.50	<0.50	<0.50
	07/26/09	550	<110	<230	25	9.5	12	79	<0.50	<10	<0.50	<0.50	<0.50
	04/28/09	82	< 100	205x	1.7	1.1	1.2	4.5	<0.50	<10	<0.50	<0.50	<0.50
	01/24/09	<50	<100	<200	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
	10/25/08	100x	126x	338x	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	61x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	15.3	<0.500	<0.500	<0.500
	04/30/08	<74x	<100	<200	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	NA
	GW-3	01/08/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50
08/07/12		<50	<100	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
04/23/12		<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
12/01/11		<50	<100	<200	0.59	0.62	<0.50	1.1/0.87	<0.50	<5.0	<0.50	<0.50	<0.50
06/08/11		<50	120Y	340	10	<0.5	2.5	2.2/0.7	<0.5	<10	<0.5	<0.5	<0.5
12/30/10		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	<5.0	<0.50	<0.50	<0.50
10/12/10		180x	<100	<200	4.1	6.0	7.1	11/9.7	<0.50	NA	NA	NA	NA
07/28/10		<50	<100	<200	<0.50	<0.50	<0.50	<1.0/0.50	<0.50	NA	NA	NA	NA
11/12/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	0.72	<10	<0.50	<0.50	<0.50
07/26/09		<50	<100	<200	<0.50	<0.50	<0.50	<1.5	<0.50	<10	<0.50	<0.50	<0.50
04/28/09		500x	<100	206x	63	0.63	<0.50	2.9	<0.50	<10	<0.50	<0.50	<0.50
01/24/09		<50	<100	<200	0.740	<0.500	<0.500	<1.50	<0.500	<10	<0.500	<0.500	<0.500
10/25/08		100x	<100	<200	8.47	<0.500	<0.500	<1.50	<0.500	<10	<0.500	<0.500	<0.500
07/27/08		63x	<100	200	3.27	<0.500	<0.500	<1.50	<0.500	<10	<0.500	<0.500	<0.500
04/30/08	250	<100	<200	46.5	1.36	2.16	6.27	<0.500	NA	NA	NA	NA	
<i>Residential ESL (DWS)</i>		<i>100</i>	<i>100</i>	<i>100</i>	<i>1</i>	<i>40</i>	<i>30</i>	<i>20</i>	<i>5</i>	<i>12</i>	<i>na</i>	<i>na</i>	<i>na</i>
<i>Residential ESL (NDWS)</i>		<i>500</i>	<i>640</i>	<i>640</i>	<i>46</i>	<i>130</i>	<i>290</i>	<i>100</i>	<i>1,800</i>	<i>18,000</i>	<i>na</i>	<i>na</i>	<i>na</i>

Abbreviations and Methods:

NA = Not analyzed for particular constituent of concern

na = Not applicable

x = Chromatogram does not resemble typical pattern for specific TPH compound or other non-trageted hydrocarbons causing potetially biasing data

TPH_g = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPH_d = Total Petroleum Hydrocarbons as diesel by EPA Method 8015

TPH_{mo} = Total Petroleum Hydrocarbons as motor oil by EPA Method 8015

DIPE = Diisopropyl Ether

ETBE = Ethyl tert-butyl ether

MTBE = methyl-tert-butyl ether (MTBE)

t-Butanol = tert-Butyl Alcohol (TBA)

TAME = tert-Amyl methyl ether

Xylenes are separated into o-xylene and m,p-xylene and reported as m,p-xylene/o-xylene

Benzene, toluene, ethylbenzene, xylenes, MTBE, DIPE, ETBE, TAME, and t-Butanol by EPA Method 8260

ESL = San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, March 2009.

DWS = Groundwater beneath site is a drinking water source NDWS = Groundwater beneath site is not a drinking water source

Table 4
August 2012 and January 2013
DPE Well Groundwater Analytical Results
1409-1417 12th Street Oakland, California

Sample ID	Date Sampled	TPHg (ug/L)	TPHd (ug/L)	TPHmo (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
DPE-1	01/08/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<200	<0.50	<0.50	<0.50	<0.50/ 1.0	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.50/0.50	<0.5	<10	<0.5	<0.5	<0.5
	10/11/10	50	<100	<200	<0.50	<0.50	0.84	1.3/ 1.3	<0.50	NA	NA	NA	NA
DPE-1B	01/08/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	08/07/12	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<100	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<200	<0.50	<0.50	<0.50	<0.50/ 1.0	<0.50	<5.0	<0.50	<0.50	<0.50
	06/09/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.50/0.50	<0.5	<10	<0.5	<0.5	<0.5
	10/12/10	98x	<100	<200	<0.50	1.1	1.8	3.0/ 2.4	<0.5	NA	NA	NA	NA
DPE-2	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.5/0.5	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<110	<220	<0.50	<0.50	<0.50	0.50/ 1.0	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	<50	<300	<0.5	<0.5	<0.5	<0.50/0.50	<0.5	<10	<0.5	<0.5	<0.5
	10/11/10	<51	<100	<200	<0.50	<0.50	<0.50	<1.0/ 0.50	<0.50	NA	NA	NA	NA
	01/07/13												
DPE-2B	01/07/13	<50	130	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	0.50/ 1.0	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<210	<0.50	<0.50	<0.50	0.50/ 1.0	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	110Y	<300	<0.5	<0.5	<0.5	<0.50/0.50	<0.5	<10	<0.5	<0.5	<0.5
	10/12/10	100x	<100	<200	6.8	1.4	2.2	3.4/ 2.8	<0.50	NA	NA	NA	NA
DPE-3	01/08/13	120	110	<400	5.3	<0.50	3.7	5.5/2.6	<0.50	<10	<0.50	<0.50	<0.50
	08/07/12	150	<100	<400	11	1.2	4.7	9.4/3.7	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	640	330Y	<300	17	8.9	29	60/38	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	66	<100	<210	7.7	3.2	1.8	7.5/9.8	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	1,100	280Y	<300	53	62	42	75/ 60	<0.5	<10	<0.5	<0.5	<0.5
	10/12/10	1600x	170x	<200	93	21	63	55/ 54	<0.50	NA	NA	NA	NA
DPE-5	01/07/13	<50	110	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	0.62	<0.50	<0.50	1.7/0.67	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<210	<0.50	<0.50	<0.50	<0.50/1.0	<0.5	<5.0	<0.50	<0.50	<0.50
	06/08/11	52	<50	<300	1.6	<0.5	<0.5	5.0/ 3.9	<0.5	<10	<0.5	<0.5	<0.5
	10/11/10	87	<100	<200	7.5	0.78	2.9	2.0/ 1.4	<0.50	NA	NA	NA	NA
DPE-6	01/07/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<210	<0.50	<0.50	<0.50	0.50/ 1.0	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	100Y	<300	<0.5	<0.5	<0.5	<0.50/0.50	<0.5	<10	<0.5	<0.5	<0.5
	10/11/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/ 0.50	<0.50	NA	NA	NA	NA
DPE-7	01/08/13	<50	<100	<400	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	04/23/12	<50	<50	<300	<0.50	<0.50	<0.50	<0.50/0.50	<0.50	<10	<0.50	<0.50	<0.50
	12/01/11	<50	<100	<200	<0.50	<0.50	<0.50	0.50/ 1.0	<0.50	<5.0	<0.50	<0.50	<0.50
	06/08/11	<50	130Y	<300	<0.5	<0.5	<0.5	<0.50/0.50	<0.5	<10	<0.5	<0.5	<0.5
	10/11/10	<50	<100	<200	<0.50	<0.50	<0.50	<1.0/ 0.50	<0.50	NA	NA	NA	NA
Residential ESL (DWS)		100	100	100	1	40	30	20	5	12	NA	NA	NA
Residential ESL (NDWS)		500	640	640	46	130	290	100	1,800	18,000	NA	NA	NA

Abbreviations and Methods:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260
 TPHd = Total Petroleum Hydrocarbons as diesel by EPA Method 8015
 TPHmo = Total Petroleum Hydrocarbons as motor oil by EPA Method 8015
 Benzene, methyl-tert-butyl ether, toluene (MTBE), ethylbenzene, and xylenes by EPA Method 8260
 Xylenes are separated into m,p-xylene and o-xylene and reported as m,p-xylene/o-xylene
 ug/L = Micrograms per liter, equivalent to parts per billion (ppb)
 ESL = San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, March 2009.
 DWS = Groundwater beneath site is a drinking water source
 NDWS = Groundwater beneath site is not a drinking water source

Table 3
Groundwater Analytical Results_Petroleum Hydrocarbons, BTEX and MTBE
Site Characterization Report
1409- 1417 12th Street Oakland, California

Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MtBE	
Sample ID	Sampled	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
B-6:GW	05/07/07	<25	<66	150	<0.50	<0.50	<0.50	<0.50	<1.0
B-7:GW	05/07/07	<25	59	<100	<0.50	<0.50	<0.50	<0.50	<1.0
B-9:GW	05/07/07	52,000	<1,200*	<2,400*	8,700	2,200	2,000	7,200	<100*
B-10:GW	05/09/07	<25	<49	<98	<0.50	<0.50	<0.50	<0.50	<1.0
B-11:GW	05/07/07	<25	<56	<110	<0.50	<0.50	<0.50	<0.50	<1.0
B-12:GW	05/09/07	<25	<50	<100	<0.50	<0.50	<0.50	<0.50	<1.0
B-13:GW	05/09/07	<25	<50	<100	<0.50	<0.50	<0.50	<0.50	<1.0
B-14:GW	05/09/07	<25	<52	<100	<0.50	<0.50	<0.50	<0.50	<1.0
B-15:GW	05/07/07	<25	<62	<120	<0.50	<0.50	<0.50	<0.50	<1.0
<i>Residential ESL (DWS)</i>		<i>100</i>	<i>100</i>	<i>100</i>	<i>1.0</i>	<i>40</i>	<i>30</i>	<i>20</i>	<i>5.0</i>

Abbreviations and Methods:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

TPHmo= Total Petroleum Hydrocarbons as motor oil by EPA Method 8015

Benzene, methyl-tert-butyl ether, toluene, ethylbenzene, and xylenes by EPA Method 8020

ug/L= Micrograms per liter, equivalent to parts per billion (ppb)

*- The detection limits for this sample are elevated due to the presence of high concentrations of several constituents. The high detection limits may mask the presence of this constituent.

NA = Not analyzed

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

DWS- Groundwater beneath site is a drinking water source

NDWS- Groundwater beneath site is not a drinking water source

**Table II, Summary of Groundwater Sample Analytical Results
BEI Job No. 99066, East Bay Asian Local Development Corp.
1407 to 1417 12th Street, Oakland, California**

Sample I.D.	Sample Date	Modified EPA Method 8015	EPA Method 8020					EPA Method 239.2
		TPH as Gasoline ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	Lead (mg/L)
GW-1	8/12/99	<50	<0.5	<0.5	<0.5	<0.5	<5	NA
GW-2	8/12/99	31,000	320	690	2,400	4,000	<480	NA
GW-3	8/12/99	95,000	3,700	10,000	2,800	14,000	<200	<0.005
GW-4	8/12/99	<50	1.5	4.4	0.67	3.4	<5	<0.005
GW-5	8/12/99	110,000	5,800	16,000	3,100	18,000	<1,300	<0.005
MCL/AL ^a	N/A	N/A	1	150	700	1,750	^b	removed

Notes:

- EPA = Environmental Protection Agency
- TPH = Total Petroleum Hydrocarbons
- $\mu\text{g/L}$ = micrograms per liter (parts per billion)
- NA = Not analyzed
- MCL/AL = Maximum Contaminant Level or Action Level (California Drinking Water)
- N/A = Not applicable
- <x = Not detected above the listed detection limit
- ^a = Information obtained from *Compilation of Federal and State Drinking Water Standards and Criteria*, June 1997, Quality Assurance Technical Document No. 3, State of California Department of Water Resources.
- ^b = Information obtained from Cal EPA Memo, dated March 9, 1999; Secondary MCL = 5 $\mu\text{g/L}$; Public Health Goal = 13 $\mu\text{g/L}$; Drinking Water Advisory Level = 20 to 40 $\mu\text{g/L}$

Bold results indicate concentrations over the listed method detection limit.
Shaded results indicate concentrations over the respective MCL

Table 2
Soil Gas Analytical Results_
Site Closure Verification Report
1409- 1417 12th Street Oakland, California

Sample ID	CSV-1	CSV-2	CSV-3	CSV-4	CSV-5	CSV-6	CSV-7	Residential ESL
	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	
	05/16/07	05/16/07	05/16/07	05/16/07	05/16/07	05/17/07	05/16/07	
TPHg	<180	<180	<180	<180	<180	<180	<180	10,000
Benzene	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	84
Toluene	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	63,000
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	980
m,p-Xylenes	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	21,000
o-Xylenes	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	21,000
MTBE	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	9,400
1,1 Diflouroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

Abbreviations and Methods:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method modified TO-3

VOC = Volatile Organic Compounds by EPA Method TO-15

1,2,4-TMB= 1,2,4-Trimethylbenzene

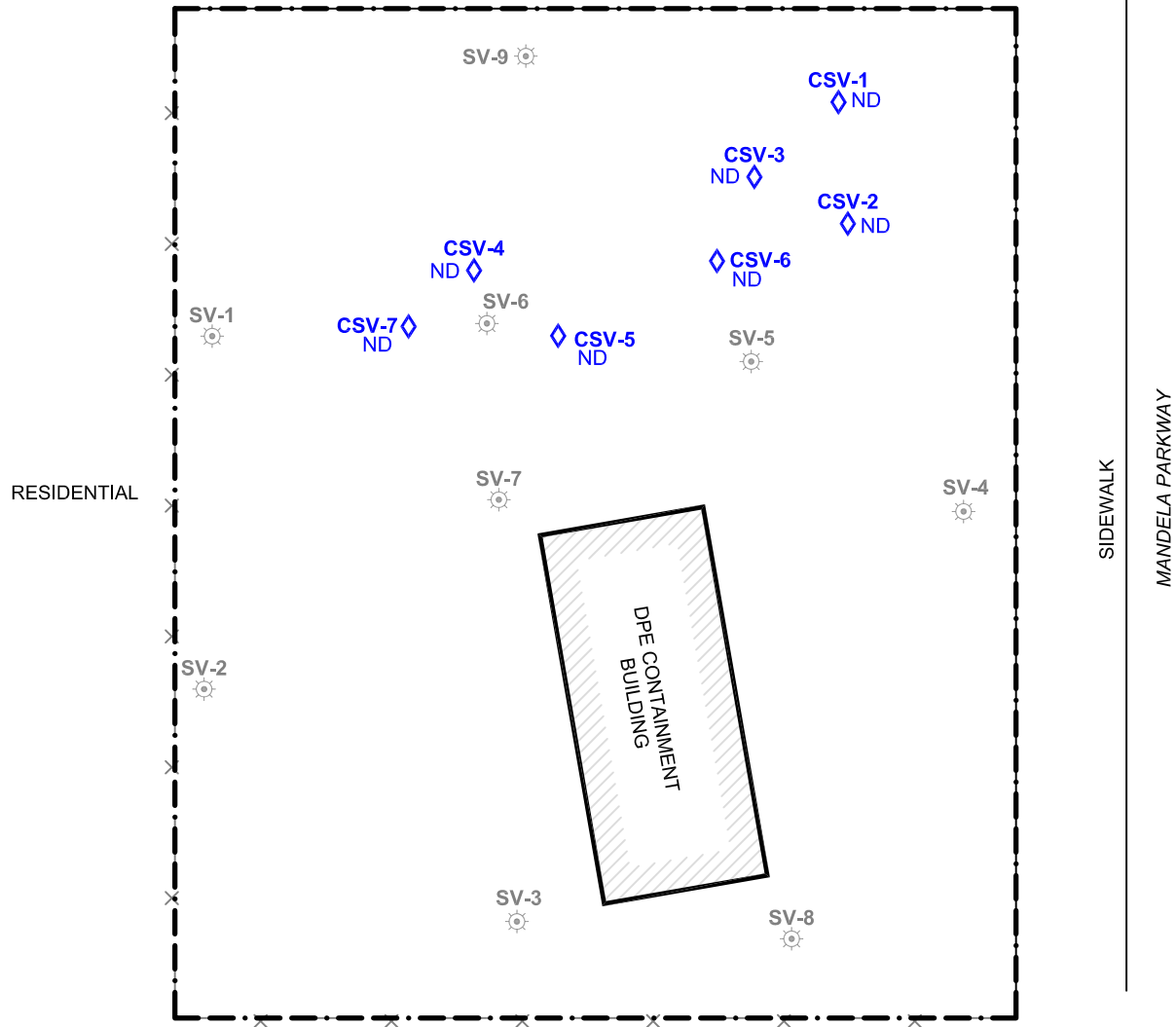
1,2,4-TMB= 1,2,4-Trimethylbenzene

ug/m³= Micrograms per cubic meter, equivalent to parts per billion by volume (ppbv)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

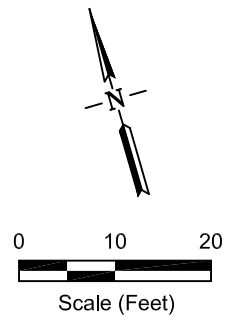
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- SV-1 ☼ Former Soil Vapor Sample Location
- CSV-5 ◇ Closure Verification Soil Vapor Well Location
- ND All Compounds Not Detected Above Method Detection Limit



C:\Work\EnviroCAD\IES\1409-1417 12th Street\Corrective Action Closure Verification\Figure 7-14.dwg Layout: Fig 7 - TPH_CW-12-11 Apr 23, 2012 - 6:02pm

Impact Environmental Services
 39120 Aronaut Way, Suite 223
 Fremont, CA 94538

Figure 4
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
CLOSURE VERIFICATION SOIL VAPOR SAMPLE RESULTS

Table 5
Soil Gas Analytical Results
Site Characterization Report
1409- 1417 12th Street Oakland, California

Sample ID	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7	SV-8	SV-9	Residential ESL	Commercial ESL
	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)		
	05/16/07	05/16/07	05/16/07	05/16/07	05/16/07	05/17/07	05/16/07	05/16/07	05/17/07		
TPHg	426 ^(J)	1,970 ^(X)	408 ^(X)	3,070 ^(X)	<352	52,000	1,040 ^(X)	<352	1,500 ^(X)	26,000	72,000
Benzene	<10	<10	<10	<10	<10	1,200	17	<10	22	85	290
Toluene	40	56	27	65	<10	1,700	34	<10	23	63000	180,000
Ethylbenzene	<10	<10	<10	<10	<10	150	<10	<10	<10	420,000	120,000
m,p-Xylenes	23	54	24	<10	<10	830	34	15	19	150,000	410,000
o-Xylenes	<10	23	<10	17	<10	590	<10	<10	<10	150,000	410,000
MTBE	<10	<10	<10	<10	<10	<10	<10	<10	<10	9400	31,000
1,2,4-TMB	16	19	<10	18	<10	310	20	<10	<10	No ESL	No ESL
1,3,5-TMB	<10	<10	<10	<10	<10	140	<10	<10	<10	No ESL	No ESL
Styrene	<10	<10	<10	<10	<10	<10	<10	<10	<10	210,000	590,000
4-Ethyl Toluene	<10	21	<10	21	<10	350	19	<10	<10	No ESL	No ESL
Acetone	<100	<100	<100	<100	<100	<100	<100	<100	220	660,000	1,800,000
Vinyl Chloride	<10	<10	<10	<10	<10	260	<10	<10	<10	32	110
Isopropanol	<10	<10	<10	310	89	<10	59	<10	200	NA	NA

Abbreviations and Methods:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method modified TO-3

VOC = Volatile Organic Compounds by EPA Method TO-15

1,2,4-TMB= 1,2,4-Trimethylbenzene

1,2,4-TMB= 1,2,4-Trimethylbenzene

ug/m³= Micrograms per cubic meter, equivalent to parts per billion by volume (ppbv)

"J" = Reporting limit increased due to low pressure in the summa cannister. Result reported to the MDL. Values reported between the MDL and RL should be considered as estimated and are flagged with the appropriate "J" qualifier.

"X" = Although TPH as Gasoline is present, result is elevated due to the presence of non-target compounds within the TPH as Gasoline quantitative range.

NA = Not Applicable.

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

Residential

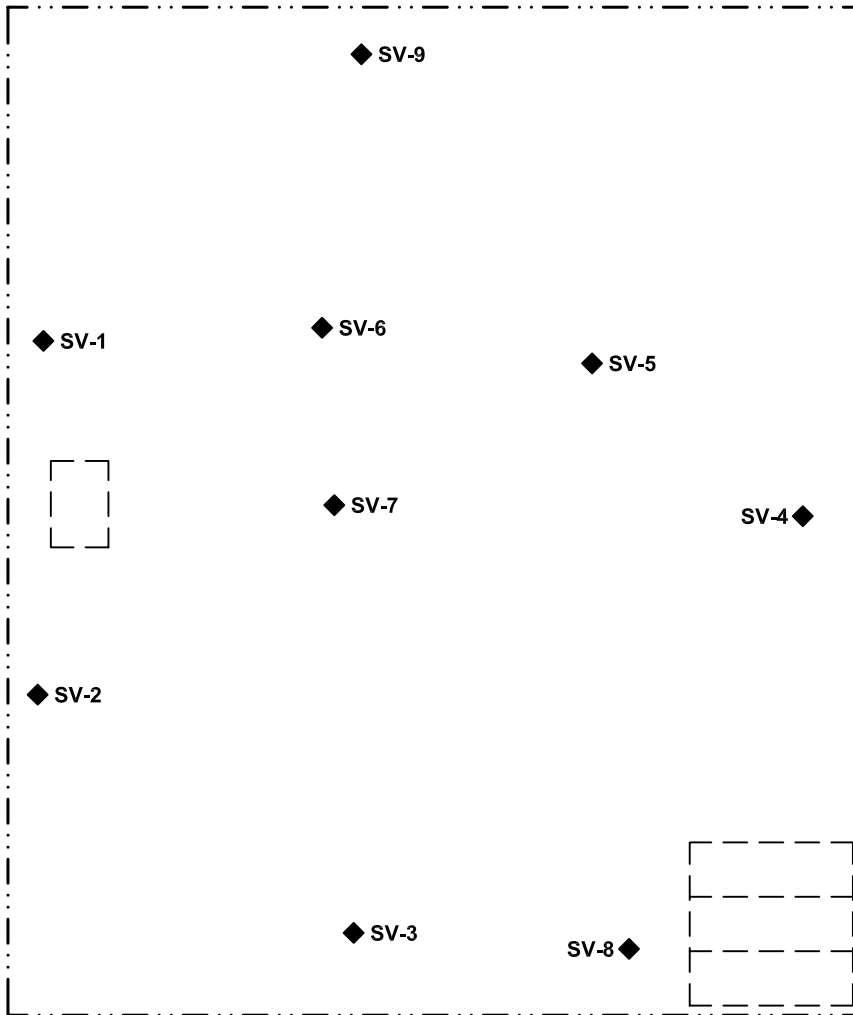
Explanation

- · · — Approximate Property Boundary
- Possible Former Underground Storage Tank (UST) Location based on Sanborn Fire Insurance Maps
- SV-1 ◆ Soil Vapor Sample Location

12TH STREET

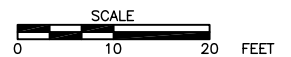
Sidewalk

Residential



MANDELA PARKWAY

Sidewalk



Revised: 5-Jun-07

Drawing File: 1409twlth

Impact Environmental Services
 39120 Argonaut Way, Suite 223
 Fremont, CA 94538

Figure 3
 1409 to 1417 12th STREET
 OAKLAND, CALIFORNIA
SOIL VAPOR SAMPLE LOCATIONS

Table 1
Soil Analytical Results
Site Closure Verification Soil Samples
1409-1417 12th Street Oakland, California

(mg/kg)

Sample ID	Date Sampled	Sample Depth	Total Petroleum Hydrocarbons			BTEX				Fuel Oxygenates and Lead Scavengers							
			TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	mp-/o-Xylene (mg/kg)	TBA (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	1,2-DCA (mg/kg)	TAME (mg/kg)	1,2-DBE (mg/kg)	Napthalene (mg/kg)
CSB1R-5	10/25/13	5	<0.100	2.3x	<10	<0.010	<0.010	<0.010	<0.010/<0.0050	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
CSB1R-7	10/25/13	7	63	9.0x	<10	<0.050	<0.050	0.0064J	0.043J/0.025	<0.250	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.300
CSB1R-10	10/25/13	10	98	7.4x	<10	<1.0	<1.0	<1.0	<1.0/<0.500	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.680J
CSB1R-12	10/25/13	12	0.830	4.2x	<10	<0.010	<0.010	0.012	0.039/0.012	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
CSB1R-15	10/25/13	15	<0.100	2.5x	<10	<0.010	<0.010	<0.010	<0.010/<0.005	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
CSB1R-18	10/25/13	18	<0.100	<2.0	<10	<0.010	<0.010	<0.010	<0.010/<0.005	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA
CSB6R-5	10/25/13	5	<0.100	2.2x	<10	<0.010	<0.010	<0.010	<0.010/<0.0050	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
CSB6R-7	10/25/13	7	1.2x	4.2x	<10	<0.010	<0.010	<0.010	0.028/<0.005	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.035
CSB6R-10	10/25/13	10	<0.100	2.9x	<10	<0.010	<0.010	<0.010	<0.010/<0.0050	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
CSB6R-13	10/25/13	13	0.400x	4.7x	<10	<0.010	<0.010	<0.010	<0.010/<0.005	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
CSB6R-15	10/25/13	15	<0.100	2.1x	<10	<0.010	<0.010	<0.010	<0.010/<0.005	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
<i>Residential ESL for Shallow Soil (DWS)</i>			<i>100</i>	<i>100</i>	<i>500</i>	<i>0.044</i>	<i>2.9</i>	<i>3.3</i>	<i>2.3</i>	<i>0.075</i>	<i>0.023</i>	<i>No ESL</i>	<i>No ESL</i>	<i>0.0045</i>	<i>No ESL</i>	<i>0.00033</i>	<i>1.2</i>

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015

TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

TPHmo= Total Petroleum Hydrocarbons as motor oil by EPA Method 8015

Benzene, methyl-tert-butyl ether, toluene, ethylbenzene, and xylenes, fuel oxygenates, and lead scavengers by EPA Method 8020

mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, May 2013.

x= Sample exhibits chromatographic pattern which does not resemble typical gasoline or diesel pattern.

J= The reporting limit was raised due to the high concentration of non-target heavy-end compounds, heavier than gasoline, lighter than diesel, possibly jet fuel (strong odor).

D:\Work\EnviroCAD\IES\1409-1417 12th Street\Closure Verification Supplemental\Figure 3 - Soil Results.dwg Layout: Fig 3 Jan 08, 2014 - 7:52pm

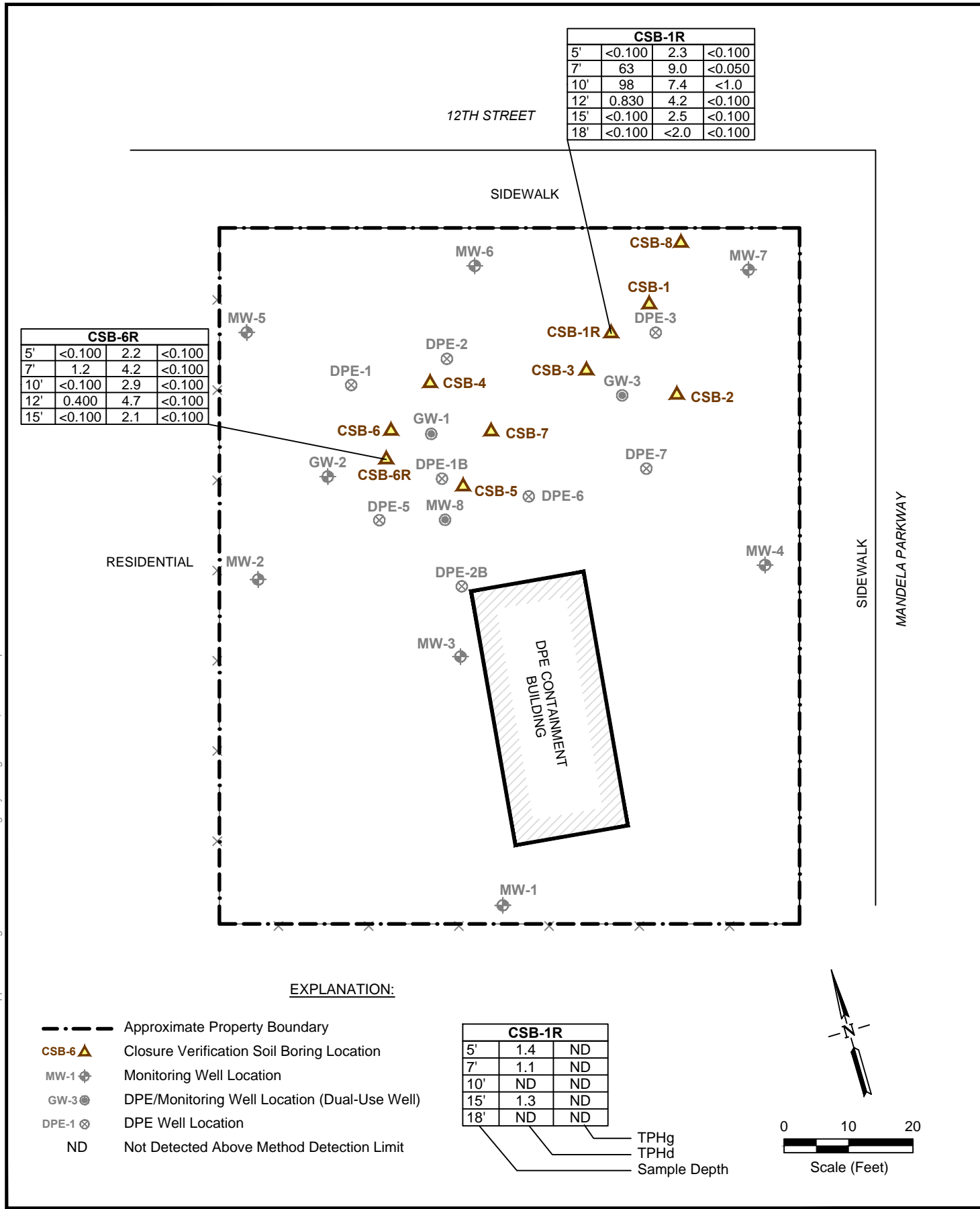


Figure 3

1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA

SUPPLEMENTAL CLOSURE VERIFICATION SOIL SAMPLE RESULTS

Impact Environmental Services
39120 Aronaut Way, Suite 223
Fremont, CA 94538

Table 1
Soil Analytical Results
Site Closure Verification Soil Samples
1409-1417 12th Street Oakland, California

			(ug/kg)													
Sample ID	Date Sampled	Sample Depth	Total Petroleum Hydrocarbons			BTEX				Fuel Oxygenates and Lead Scavengers						
			TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Total Xylene (ug/kg)	TBA (ug/kg)	MTBE (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	1,2-DCA (ug/kg)	TAME (ug/kg)	1,2-DBE (ug/kg)
CSB1-5	05/10/12	5	<0.98	<1.0	<5.0	<4.8	<4.8	<4.8	<4.8	<97	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB1-7	05/10/12	7	1,900	180Y	<5.0	<1,300	<1,300	3,100	30,900	<25,000	<1,300	<1,300	<1,300	<1,300	<1,300	<1,300
CSB1-10	05/10/12	10	3,300	550Y	<5.0	<830	<830	990	85,000	<830	<830	<830	<830	<830	<830	830
CSB1-12	05/10/12	12	2,600	490Y	<5.0	<1,300	<1,300	25,000	105,000	<25,000	<1,300	<1,300	<1,300	<1,300	<1,300	<1,300
CSB1-12A	05/10/12	12.5	55	40Y	<5.0	<5.0	<5.0	<5.0	<5.0	<99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CSB1-15	05/10/12	15	<0.99	1.3Y	<5.0	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB1-18	05/10/12	18	<0.95	1.2Y	<5.0	<4.7	4.7	<4.7	<4.7	<95	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
CSB2-5	05/10/12	5	<1.1	1.4Y	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CSB2-7	05/10/12	7	<1.1	1.1Y	<5.0	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB2-10	05/10/12	10	<0.96	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CSB2-15	05/10/12	15	<1.0	1.3Y	<5.0	<4.8	<4.8	<4.8	<4.8	<95	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB2-18	05/10/12	18	<0.93	<1.0	<5.0	<4.7	4.7	<4.7	<4.7	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
CSB3-5	05/10/12	5	<0.95	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CSB3-7	05/10/12	7	<1.0	2.6Y	7.4	<4.7	4.7	<4.7	<4.7	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
CSB3-10	05/10/12	10	<0.95	1.0Y	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CSB3-12	05/10/12	12	13Y	2.9Y	<5.0	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB3-15	05/10/12	15	<0.98	<1.0	<5.0	<4.6	4.6	4.6	<4.6	<92	4.6	4.6	4.6	4.6	4.6	<4.6
CSB3-18	05/10/12	18	<0.92	<1.0	<5.0	<4.7	4.7	<4.7	<4.7	<95	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
CSB4-5	05/10/12	5	<1.0	<1.0	<5.0	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB4-7	05/10/12	7	<0.94	53Y	<5.0	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB4-10	05/10/12	10	<0.94	1.1Y	<5.0	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB4-12	05/10/12	12	<0.97	<1.0	<5.0	<4.8	<4.8	<4.8	<4.8	<97	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB4-13	05/10/12	13	<0.96	1.0Y	<5.0	<4.8	<4.8	<4.8	<4.8	<95	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB4-15	05/10/12	15	<0.96	<1.0	<5.0	<4.6	4.6	4.6	<4.6	<91	4.6	4.6	4.6	4.6	4.6	<4.6
<i>Residential ESL for Shallow Soil (DWS)</i>			83	83	370	0.000044	0.0093	0.0023	0.011	0.000075	0.000023	No ESL	No ESL	0.00022	No ESL	0.0016
<i>Residential ESL for Shallow Soil (NDWS)</i>			83	83	370	0.00012	0.0029	0.0023	0.0023	0.10	0.0084	No ESL	No ESL	0.0000045	No ESL	0.0011

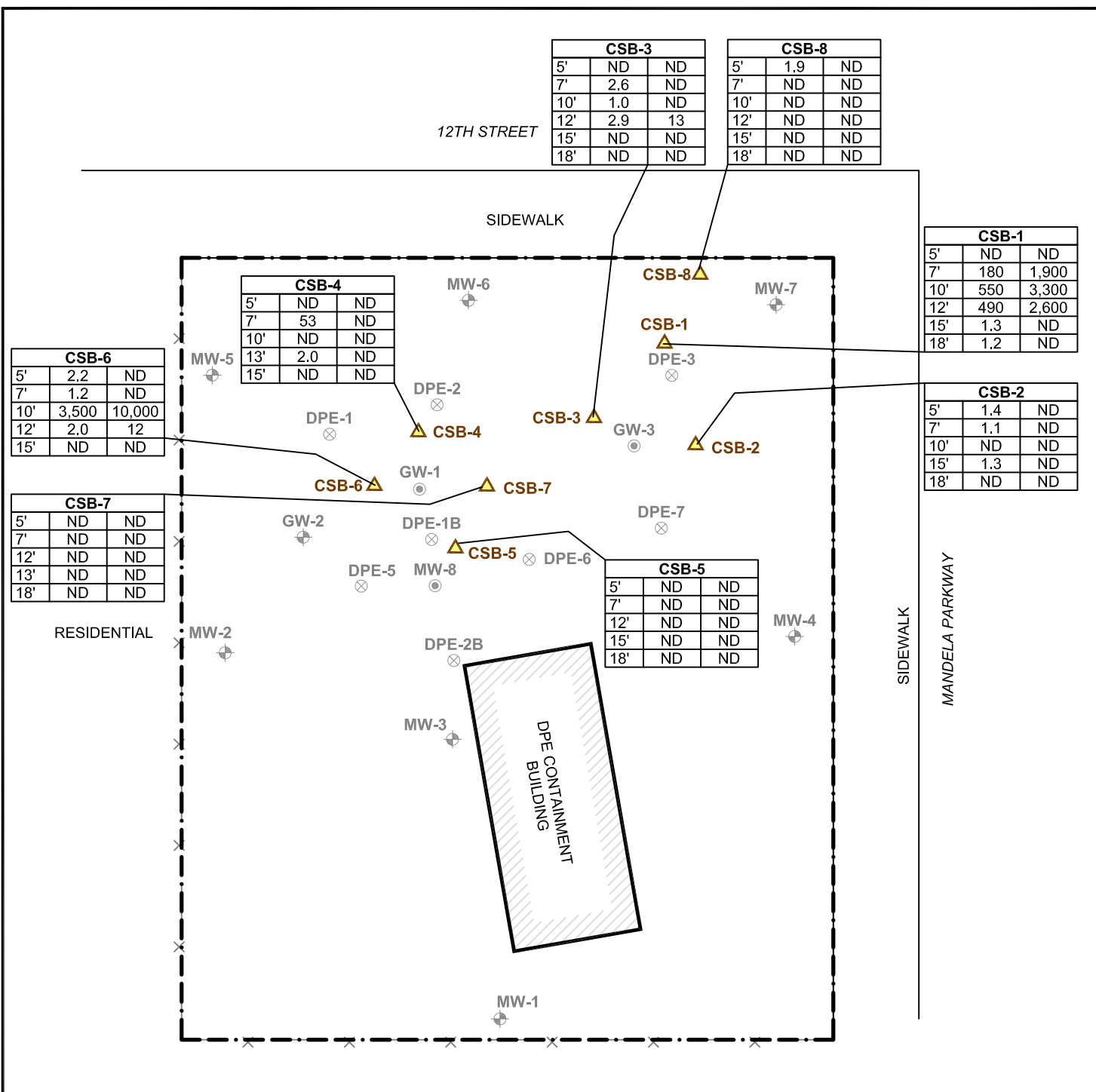
Table 1
Soil Analytical Results
Site Closure Verification Soil Samples
1409-1417 12th Street Oakland, California

Incorrect UNITS in Table for BTEX and Oxygenates; CORRECT UNITS are micrograms per kilogram (ug/kg)

Sample ID	Date Sampled	Sample Depth	Total Petroleum Hydrocarbons			BTEX				Fuel Oxygenates and Lead Scavengers						
			TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TBA (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	1,2-DCA (mg/kg)	TAME (mg/kg)	1,2-DBE (mg/kg)
CSB5-5	05/10/12	5	<1.0	<1.0	<5.0	<4.9	<4.9	<4.9	<4.9	<97	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB5-7	05/10/12	7	<0.93	<1.0	<5.0	<4.9	<4.9	<4.9	<4.9	<97	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB5-10	05/10/12	10	<1.1	<.99	<5.0	<4.9	<4.9	<4.9	<4.9	<97	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB5-12	05/10/12	12	<0.93	<1.0	<5.0	<4.9	<4.9	<4.9	<4.9	<97	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB5-15	05/10/12	15	<0.94	<.99	<5.0	<4.7	<4.7	<4.7	<4.7	<95	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
CSB5-18	05/10/12	18	<0.99	<.99	<5.0	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB6-5	05/10/12	5	<1.0	2.2Y	27	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB6-7	05/10/12	7	<0.99	1.2Y	<5.0	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB6-10	05/10/12	10	10,000	3,500Y	<100	<13,000	<13,000	<13,000	<13,000	<250,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000
CSB6-13	05/10/12	13	12Y	2.0Y	<5.0	<4.7	<4.7	<4.7	<4.7	<95	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
CSB6-15	05/10/12	15	<1.0	<1.0	<5.0	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB7-5	05/10/12	5	<0.94	<1.0	<5.0	<4.4	<4.4	<4.4	<4.4	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
CSB7-7	05/10/12	7	<0.98	<1.0	<5.0	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
CSB7-10	05/10/12	10	<0.93	<.99	<5.0	<4.8	<4.8	<4.8	<4.8	<97	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
CSB5-13	05/10/12	13	<1.0	<.99	<5.0	<4.4	<4.4	<4.4	<4.4	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
CSB5-15	05/10/12	15	<0.95	<1.0	<5.0	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
CSB8-5	05/10/12	5	<0.97	1.9Y	9.8	<4.4	<4.4	<4.4	<4.4	<89	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
CSB8-7	05/10/12	7	<1.1	<1.0	<5.0	<4.3	<4.3	<4.3	<4.3	<87	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3
CSB8-10	05/10/12	10	<0.98	<1.0	<5.0	<4.6	4.6	4.6	<4.6	<91	4.6	4.6	4.6	4.6	4.6	<4.6
CSB8-12	05/10/12	12	<0.93	<1.0	<5.0	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
CSB8-15	05/10/12	15	<0.95	<1.0	<5.0	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
CSB8-18	05/10/12	18	<0.93	<.99	<5.0	<4.6	4.6	4.6	<4.6	<92	4.6	4.6	4.6	4.6	4.6	<4.6
<i>Residential ESL for Shallow Soil (DWS)</i>			83	83	370	0.000044	0.0093	0.0023	0.011	0.000075	0.000023	No ESL	No ESL	0.00022	No ESL	0.0016
<i>Residential ESL for Shallow Soil (NDWS)</i>			83	83	2,500	0.00012	0.0029	0.0023	0.0023	0.10	0.0084	No ESL	No ESL	0.0000045	No ESL	0.0011

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
 TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015
 TPHmo= Total Petroleum Hydrocarbons as motor oil by EPA Method 8015
 Benzene, methyl-tert-butyl ether, toluene, ethylbenzene, and xylenes by EPA Method 8020
 mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)
 ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.
 Y= Sample exhibits chromatographic pattern which does not resemble diesel pattern.

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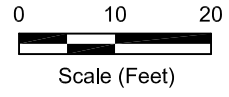


EXPLANATION:

- Approximate Property Boundary
- Closure Verification Soil Boring Location
- Monitoring Well Location
- DPE/Monitoring Well Location (Dual-Use Well)
- DPE Well Location
- ND Not Detected Above Method Detection Limit

CSB-2		
5'	1.4	ND
7'	1.1	ND
10'	ND	ND
15'	1.3	ND
18'	ND	ND

TPHg
TPHd
Sample Depth



Impact Environmental Services
39120 Aronaut Way, Suite 223
Fremont, CA 94538

Figure 3
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
CLOSURE VERIFICATION SOIL SAMPLE RESULTS

Table 1
DPE Well Soil Analytical Results
1409-1417 12th Street
Oakland, California

Sample ID	Date Sampled	Sample Depth (ft-bgs)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	t-Butanol (mg/kg)	TAME (mg/kg)
DPE-4:5'	01/14/09	5	<1	<2.00	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-4:10'	01/14/09	10	<1	<2.00	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-4:15'	01/14/09	15	<1	<2.00	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-4:20'	01/14/09	20	<1	<2.00	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-7:5'	01/16/09	5	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-7:10'	01/16/09	10	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-7:15'	01/16/09	15	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-8:5'	01/16/09	5	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-8:10'	01/16/09	10	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-8:15'	01/16/09	15	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-9:5'	01/16/09	5	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-9:10'	01/16/09	10	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
DPE-9:15'	01/16/09	15	<1	NA	<0.005	<0.005	<0.005	<0.015	<0.010	<0.010	<0.010	<0.050	<0.010
<i>Residential ESL for Shallow Soil (NDWS)</i>			<i>210</i>	<i>180</i>	<i>0.27</i>	<i>9.3</i>	<i>4.7</i>	<i>4.7</i>	<i>8.4</i>	<i>NE</i>	<i>NE</i>	<i>NE</i>	<i>NE</i>
<i>Residential ESL for Shallow Soil (DWS)</i>			<i>83</i>	<i>83</i>	<i>0.044</i>	<i>2.9</i>	<i>3.3</i>	<i>2.3</i>	<i>0.23</i>	<i>NE</i>	<i>NE</i>	<i>NE</i>	<i>NE</i>

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd = Total Petroleum Hydrocarbons as diesel by EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes, and oxygenates by EPA Method 8260

mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

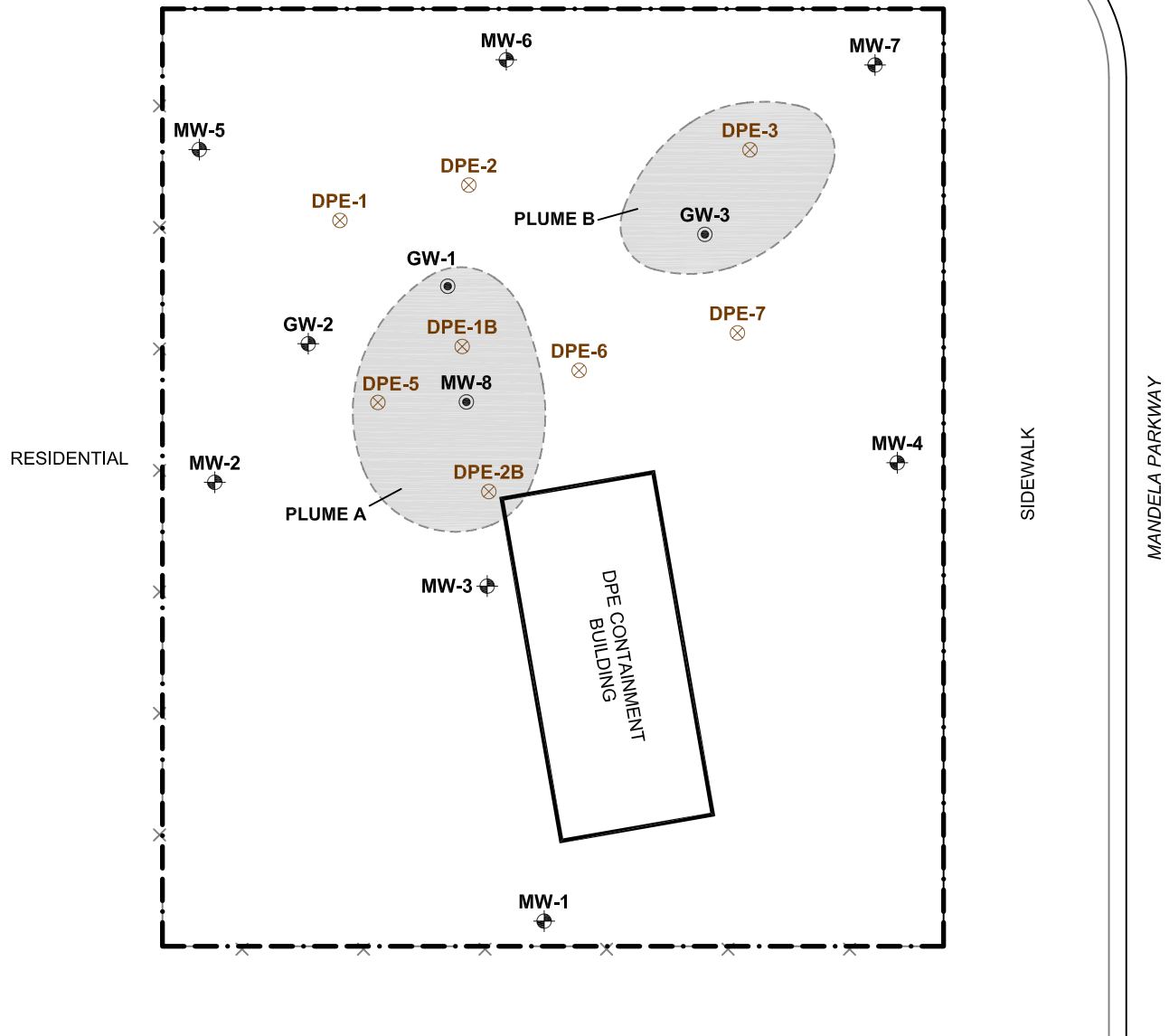
ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, May 2008.

NA = Not analyzed

NE = ESL not established for this constituent.

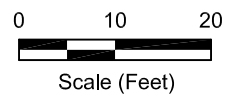
12TH STREET

SIDEWALK



EXPLANATION:

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- GW-3 DPE/Monitoring Well Location (Dual-Use Well)
- DPE-1 DPE Well Location
- Projected Limits of Hydrocarbon Plume



C:\Work\EnviroCAD\IES\1409-1417 12th Street\DPE Startup Report\Figure 2 - Site Plan.dwg Layout: Fig 2 Nov 14, 2010 - 7:43pm

Impact Environmental Services
 39120 Aronaut Way, Suite 223
 Fremont, CA 94538

Figure 2
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
SITE PLAN

Table 1
Soil Analytical Results
1409-1417 12th Street
Oakland, California

Sample ID	Date	Sample Depth (ft-bgs)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes
	Sampled		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-1-5.5'	03/10/08	5.5	<1	18.7	20.5	<0.005	<0.005	<0.005	<0.015
MW-1-10.5'	03/10/08	10.5	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-1-15'	03/10/08	15	<1	4.70	6.35	<0.005	<0.005	<0.005	<0.015
MW-2-7'	03/11/08	7	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-2-10.5'	03/11/08	10.5	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-2-13.8'	03/11/08	13.8	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-4-9.5'	03/11/08	9.5	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-4-12'	03/11/08	12	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-4-17'	03/11/08	17	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-6-5'	04/02/08	6.5	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-6-10'	04/02/08	10	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-6-15'	04/02/08	15	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-8-6.5'	03/10/08	6.5	333	54.7	<4	<0.5	<0.5	1.7	8.2
MW-8-11'	03/10/08	11	40	<2	<4	0.76	1	1.4	7.7
MW-8-16'	03/10/08	16	138	<2	<4	<0.005	<0.005	<0.005	<0.015
MW-8-20.5'	03/10/08	20.5	107	3.0	4.41	<0.005	<0.005	<0.005	<0.017
MW-8- 27'	03/13/08	27	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
GW-2-5'	04/03/07	5	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
GW-2-10'	04/03/07	10	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
GW-2-15'	04/03/07	15	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
GW-2-18'	04/03/07	18	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
B-16-5'	03/06/08	5	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
B-16-8'	03/06/08	8	4,700	240	<40	13	180	110	520
B-16-10'	03/06/08	10	0.116	<2	<4	<0.005	0.0066	0.0079	0.026
B-16-13'	03/06/08	13	2.3	60	<4	0.17	0.077	0.080	0.30
B-16-15'	03/06/08	15	520	17	<4	2.3	7.7	16	52
B-16-20'	03/06/08	20	1.134	<2	<4	<0.005	0.032	0.025	0.12
B-16-22'	03/06/08	22	0.740	<2	<4	0.0082	0.049	0.027	0.13
B-17-5'	03/07/08	5	<1	<2	29.2	<0.005	<0.005	<0.005	<0.015
B-17-10'	03/07/08	10	<1	<2	4.16	<0.005	<0.005	<0.005	<0.015
B-17-15'	03/07/08	15	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
B-17-20'	03/07/08	20	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
B-17-25'	03/07/08	25	<1	<2	<4	<0.005	<0.005	<0.005	<0.015
<i>Residential ESL for Shallow Soil (NDWS)</i>			<i>100</i>	<i>100</i>	<i>500</i>	<i>0.18</i>	<i>9.3</i>	<i>32</i>	<i>11</i>
<i>Residential ESL for Shallow Soil (DWS)</i>			<i>100</i>	<i>100</i>	<i>500</i>	<i>0.044</i>	<i>2.9</i>	<i>3.3</i>	<i>2.3</i>

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd & TPHmo= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260

mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

Note: Soil samples collected from boring B-16 were used to represent soil quality for proposed extraction well GW-3, due to their close proximity.

Table 1
Soil Analytical Results
Groundwater Monitoring Well Installation
1409-1417 12th Street
Oakland, California

Sample ID	Date Sampled	Sample Depth	1,2-Dibromomethane (mg/kg)	1,2-Dichloroethane (mg/kg)	Diisopropyl Ether (mg/kg)	Ethyl tert-butyl ether (mg/kg)	Isopropyl Ether (mg/kg)	Methyl tert-butyl ether (mg/kg)	t-Butanol (mg/kg)	tert-Amyl methyl ether (mg/kg)
MW-1-5.5'	03/10/08	5.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-1-10.5'	03/10/08	10.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-1-15'	03/10/08	15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-2-7'	03/11/08	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-2-10.5'	03/11/08	10.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-2-13.8'	03/11/08	13.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-4-9.5'	03/11/08	9.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-4-12'	03/11/08	12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-4-17'	03/11/08	17	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-6-5'	04/02/08	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-6-10'	04/02/08	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-6-15'	04/02/08	15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
MW-8-6.5'	03/10/08	5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<0.5
MW-8-11'	03/10/08	11	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<0.5
MW-8-16'	03/10/08	16	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<0.5
MW-8-20.5'	03/10/08	20.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<0.5
MW-8-27'	03/10/08	27	NA	NA	<0.5	<0.5	NA	<1.0	<5.0	<0.5
GW-2-5'	04/03/07	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
GW-2-10'	04/03/07	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
GW-2-15'	04/03/07	15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
GW-2-18'	04/03/07	18	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-16-5'	03/06/08	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-16-8'	03/06/08	8	<10	<10	<10	<10	NA	<20	<100	<10
B-16-10'	03/06/08	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-16-13'	03/06/08	13	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.250	<0.025
B-16-15'	03/06/08	15	<1.0	<1.0	<1.0	<1.0	NA	<2.0	<10	<1.0
B-16-20'	03/06/08	20	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-16-22'	03/06/08	22	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-17-5'	03/07/08	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-17-10'	03/07/08	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-17-15'	03/07/08	15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-17-20'	03/07/08	20	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
B-17-25'	03/07/08	25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005
<i>Residential ESL for Shallow Soil (DWS)</i>			7.3	25	NA	NA	NA	23	57,000	NA

Fuel Oxygenates by EPA Method 8260

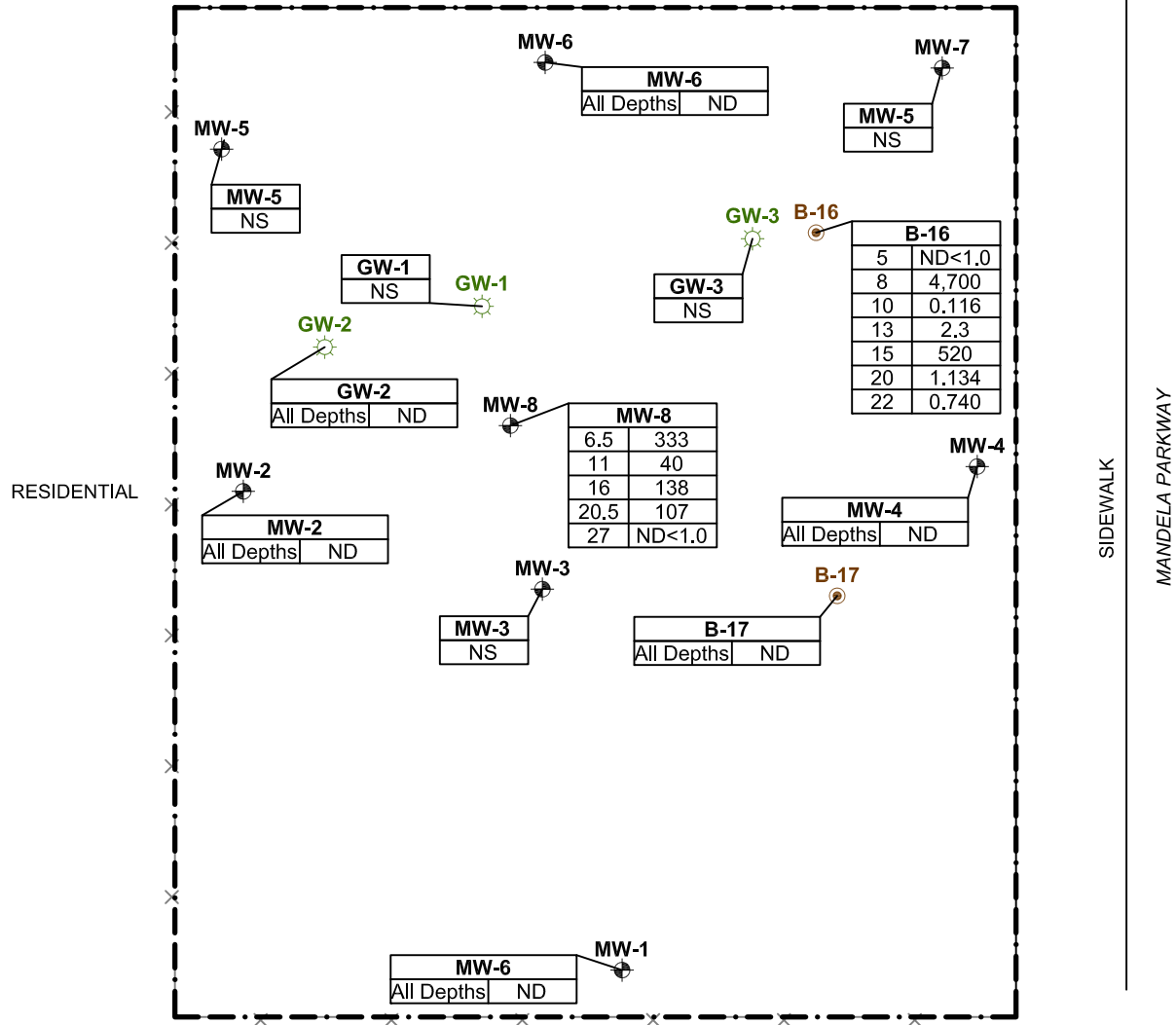
mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

Note: Soil samples collected from boring B-16 were used to represent soil quality for proposed extraction well GW-3, due to their close proximity.

12TH STREET

SIDEWALK



EXPLANATION:

--- Approximate Property Boundary

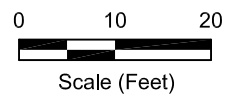
MW-8 Monitoring Well Location

GW-3 Groundwater Extraction Well Location

B-16 Exploratory Well Location

MW-8		Well ID
6.5	333	TPHg Concentration in Soil in mg/Kg
11	40	
16	138	
		Depth in feet

NS Soil Not sampled in this boring



C:\Work\EnviroCAD\IES\1409-1417 12th Street\Well Installation-GW Mon Report\Figure 2-3-4-5-6.dwg Layout: Fig 3 - TPHg-Soil Oct 07, 2008 - 11:18pm

Impact Environmental Services
 39120 Aronaut Way, Suite 223
 Fremont, CA 94538

Figure 3
 1409 to 1417 12TH STREET
 OAKLAND, CALIFORNIA
TPHg IN SOIL

Table 1
Soil Analytical Results_Petroleum Hydrocarbons, BTEX and MTBE
Site Characterization Report
1409- 1417 12th Street Oakland, California

Sample ID	Date Sampled	Sample Depth	TPHg (µg/Kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Xylenes (µg/Kg)	MtBE (µg/Kg)
B-6: 5'	05/07/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-6: 10'	05/07/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-6: 15'	05/07/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-6: 20'	05/07/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-7: 5'	05/07/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-7: 10'	05/07/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-7: 15'	05/07/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-7: 20'	05/07/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-9: 5'	05/07/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-9: 10'	05/07/07	10	4,600,000	<50	<100	<25,000*	<25,000*	<25,000*	88,000	<25,000*
B-9: 12'	05/07/07	12	20,000,000	<100	<200	<50,000*	210,000	220,000	1,300,000	<50,000*
B-9: 20'	05/07/07	20	32,000	<5.0	<10	830	320	440	1,600	<250*
B-10: 5'	05/09/07	5	<100	<5.0	35	<5.0	<5.0	<5.0	<10	<5.0
B-10: 10'	05/09/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-10: 15'	05/09/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-10: 20'	05/09/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-11: 5'	05/07/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-11: 10'	05/07/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-11: 15'	05/07/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-11: 20'	05/07/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
<i>Residential ESL for Shallow Soil (DWS)</i>			<i>100,000</i>	<i>100</i>	<i>500</i>	<i>44</i>	<i>2,900</i>	<i>3,300</i>	<i>2,300</i>	<i>23</i>

Table 1
Soil Analytical Results_Petroleum Hydrocarbons, BTEX and MTBE
Site Characterization Report
1409- 1417 12th Street Oakland, California

Sample ID	Date Sampled	Sample Depth	TPHg (µg/Kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Xylenes (µg/Kg)	MTBE (µg/Kg)
B-12: 5'	05/09/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-12: 10'	05/09/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-12: 15'	05/09/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-12: 20'	05/09/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-13: 5'	05/09/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-13: 10'	05/09/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-13: 15'	05/09/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-13: 20'	05/09/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-14: 5'	05/07/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-14: 10'	05/07/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-14: 15'	05/07/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-14: 20'	05/07/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-15: 5'	05/07/07	5	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-15: 10'	05/07/07	10	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-15: 15'	05/07/07	15	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
B-15: 20'	05/07/07	20	<100	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0
<i>Residential ESL for Shallow Soil (DWS)</i>			<i>100,000</i>	<i>100</i>	<i>500</i>	<i>44</i>	<i>2,900</i>	<i>3,300</i>	<i>2,300</i>	<i>23</i>

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260
TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015
TPHmo= Total Petroleum Hydrocarbons as motor oil by EPA Method 8015
Benzene, methyl-tert-butyl ether, toluene, ethylbenzene, and xylenes by EPA Method 8260
mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)
ug/kg = Micrograms per kilogram, equivalent to parts per billion (ppb)
NA = Not analyzed

*- The detection limits for this sample are elevated due to the presence of high concentrations of several constituents. The high detection limits may mask the presence of this constituent.

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

Bolded results exceed respective ESLs

Residential

Explanation

- · · — Approximate Property Boundary
- ⌈ ⌋ Possible Former Underground Storage Tank (UST) Location based on Sanborn Fire Insurance Maps
- B-6 ⊙ Exploratory Boring Location
- B1 • Geoprobe Location (Blymer)

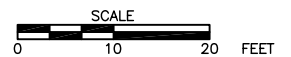
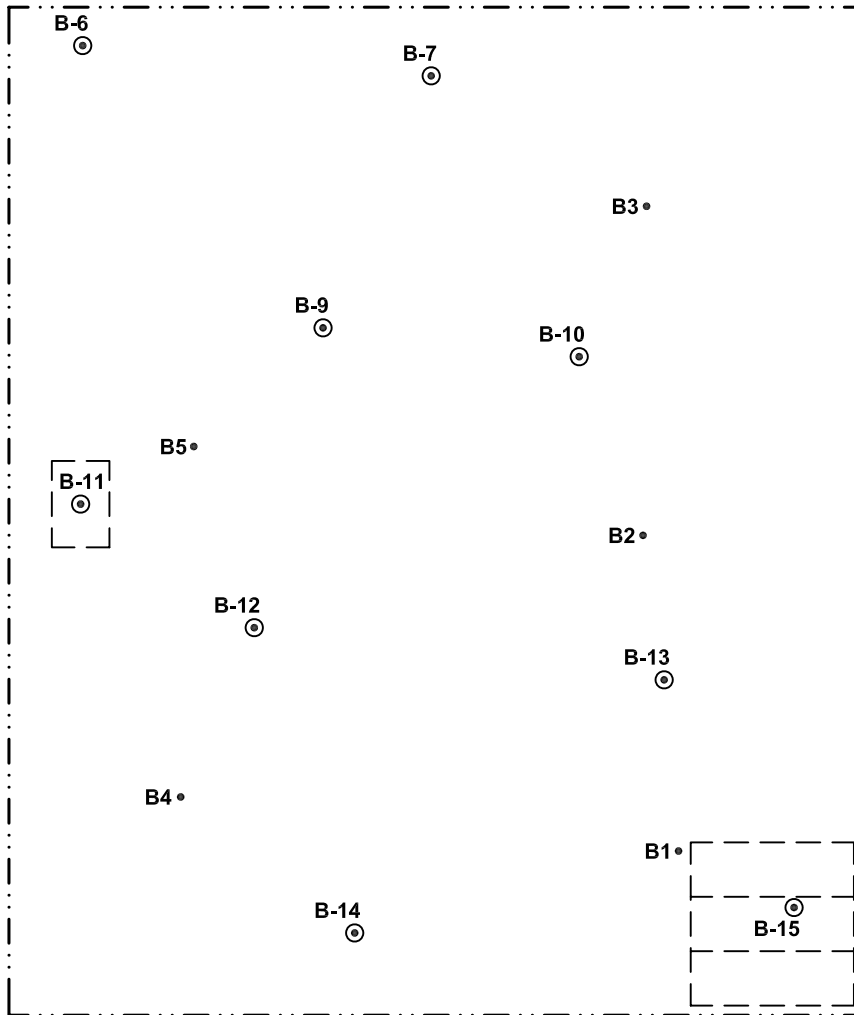
12TH STREET

Sidewalk

Residential

Sidewalk

MANDELA PARKWAY



Revised: 5-Jun-07

Drawing File: 1409tweath

Impact Environmental Services
 39120 Argonaut Way, Suite 223
 Fremont, CA 94538

Figure 2
 1409 to 1417 12th STREET
 OAKLAND, CALIFORNIA
EXPLORATORY BORING LOCATIONS

Table I. Summary of Soil Sample Analytical Results
BEI Job No. 99066, East Bay Asian Local Development Corp.
1409 to 1417 12th Street, Oakland, California

Sample I.D.	Sample Date	Modified EPA Method 8015	Modified EPA Method 8020					EPA Method 6010
		TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
B1-5	8/12/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<3.0
B1-10.5	8/12/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	3.3
B2-5.5	8/12/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	5.8
B2-11	8/12/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	3.1
B3-5	8/12/99	<1.0	0.007	<0.5	0.007	0.027	<0.05	4.7
B3-11.5	8/12/99	1,100	2.0	19	17	88	<2	6.9
B4-5	8/12/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	8.7
B4-10	8/12/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	3.2
B5-7.5	8/12/99	9.4	0.029	0.023	0.10	0.54	<0.05	5.3
B5-10.5	8/12/99	1,500	5.9	37	22	120	<2	7.1

Notes:

- EPA = Environmental Protection Agency
- TPH = Total Petroleum Hydrocarbons
- mg/kg = milligrams per kilogram (parts per million)
- <x = Not detected above the listed detection limit
- B1-10.5 = Soil sample from well MW-1 at a depth of 10.5 feet

Bold results indicate concentrations over the listed method detection limit.

RESIDENTIAL

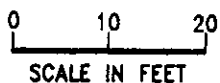
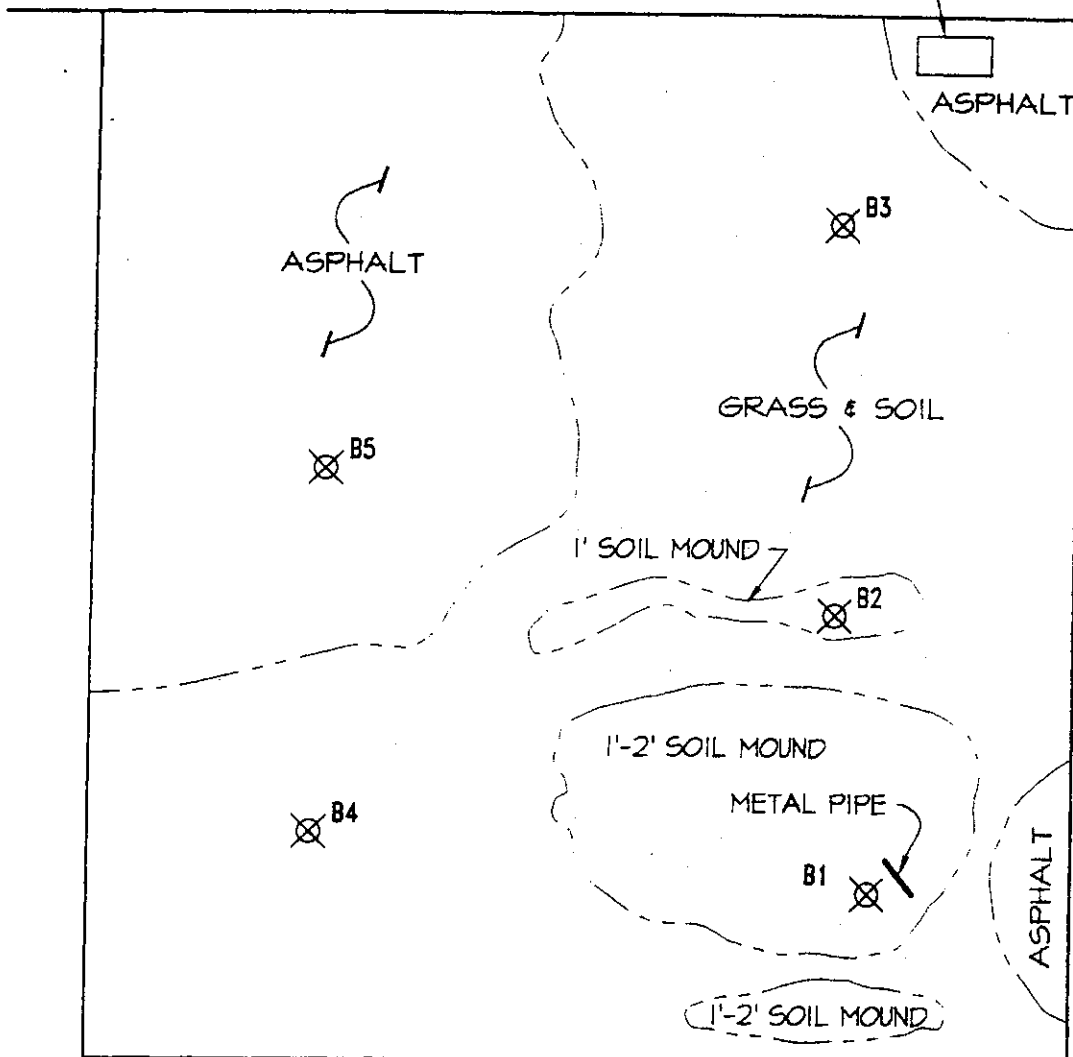


12TH STREET

CONCRETE SIGN BASE

RESIDENTIAL

MANDELLA PARKWAY



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BLYMYER
ENGINEERS, INC.

BEI JOB NO.
99066

DATE
8-18-99

LEGEND



B1

GEOPROBE BORE
LOCATION

SITE PLAN

EAST BAY ASIAN LOCAL
DEVELOPMENT CORP.
1409 to 1417 12TH ST., OAKLAND, CA

FIGURE

2