

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Director



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

April 1, 2014

Jane Allen
2 Lone Tree Avenue
Mill Valley, CA 94941-1741

Teresa Pucci
Pucci Enterprises
6369 Stone Bridge Road
Santa Rosa, CA 95409-5859

Subject: Case Closure for Fuel Leak Case No. RO0002930 and GeoTracker Global ID T0600108713, Allen Property, 325 Martin Luther King Jr Way, Oakland, CA 94607

Dear Ms. Allen and Ms. Pucci:

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 contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use. Site Management Requirements are further described in section IV of the attached Case Closure Summary.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

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

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

Jane Allen
Teresa Pucci
RO0002930
April 1, 2014
Page 2

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (Sent via E-mail to: lgriffin@oaklandnet.com)

Robert Flory, AEI Consultants, 2500 Camino Diablo Blvd., Suite 200
Walnut Creek, CA 94597 (sent via E-mail to rflory@aeiconsultants.com)

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

GeoTracker, eFile

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Agency Director

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

REMEDIAL ACTION COMPLETION CERTIFICATION

April 1, 2014

Jane Allen
2 Lone Tree Avenue
Mill Valley, CA 94941-1741

Teresa Pucci
Pucci Enterprises
6369 Stone Bridge Road
Santa Rosa, CA 95409-5859

Subject: Case Closure for Fuel Leak Case No. RO0002930 and GeoTracker Global ID T0600108713, Allen Property, 325 Martin Luther King Jr Way, Oakland, CA 94607

Dear Ms. Allen and Ms. Pucci:

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

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

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

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

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

Sincerely,


Ariu Levi
Director

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: December 17, 2013

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

II. CASE INFORMATION

Site Facility Name: Allen Property		
Site Facility Address: 325 Martin Luther King Jr Way, Oakland, CA 94607		
RB Case No.: ----	STID No.: ----	LOP Case No.: RO0002930
URF Filing Date: 08/29/2006	Geotracker ID: T0600108713	APN: 1-121-31-1
Current Land Use: Commercial		
Responsible Parties	Addresses	Phone Numbers
Jane Allen	2 Lone Tree Avenue Mill Valley, CA 94941-1741	----
Teresa Pucci Pucci Enterprises	6369 Stone Bridge Road Santa Rosa, CA 95409-5859	----

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
----	10,000	Gasoline	Closed in Place	11/1984
	Piping		Removed	11/1984

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Release from underground storage tank (UST) system.		
Site characterization complete? Yes		
Monitoring wells installed? Yes	Number: 8	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 7.26 feet bgs	Lowest Depth: 9.17 feet bgs	Flow Direction: Southwest
Most Sensitive Current Groundwater Use: Potential drinking water source		

Summary of Production Wells in Vicinity: No water supply wells have been identified within 1,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest Surface Water Name: Oakland Inner Harbor is approximately 1,230 feet southwest (downgradient) from the site
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Free Product	----	----	----
Soil	----	----	----
Groundwater	----	----	----

LTCP GROUNDWATER SPECIFIC CRITERIA

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

Site Data		LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
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 or decreasing*	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	>1,000 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	1,230 feet downgradient	>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 (ppb)	Current Site Maximum (ppb)	LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Benzene	13,000	4,700	No criteria	3,000	No criteria	1,000
MTBE	51	<5	No criteria	1,000	No criteria	1,000

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?

Notes:

* Plume appears to be stable or decreasing over long term; however, recent groundwater monitoring data in the source area is highly variable due to effects from infusions of chemical oxidant.

LTCP VAPOR SPECIFIC CRITERIA

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

Active Fueling Station No

Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered NAPL	No NAPL	LNAPL in groundwater	LNAPL in soil	No NAPL	No NAPL	No NAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	7 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Bioattenuation Zone	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm
Maximum Current Benzene Concentration in Groundwater	4,700 ppb	No criteria	No criteria	<100 ppb	≥100 and <1,000 ppb	<1,000 ppb	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	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 Bioattenuation Zone		Bioattenuation Zone	
Constituent	Historic Maximum (µg/m ³)	Current Maximum (µg/m ³)	Residential	Commercial	Residential	Commercial
Benzene	<6.5	<6.5	<85	<280	<85,000	<280,000
Ethylbenzene	45	45	<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 as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls?

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA

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

Are maximum concentrations less than those in Table 1 below?

No

Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 10 feet bgs (ppm)
Site Maximum	Benzene	----	200	----	200	200
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	----	320	----	320	320
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5

If maximum concentrations are greater than those in Table 1, are they less than levels from a site-specific risk assessment?

If maximum concentrations are greater than those in Table 1, has a determination been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls?

Yes

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
<p>Site Management Requirements:</p> <p>This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Residual petroleum hydrocarbons remain in place in the area of the closed-in-place underground storage tank. Under the current land use, the residual contamination is below the floor of the building and does not appear to pose a risk for direct contact or vapor intrusion to indoor air. Therefore, case closure is granted for the current commercial building.</p> <p>If redevelopment or construction is planned that involves removal of the existing building floor or excavation below a depth of two feet in the area of the closed-in-place underground storage tank, 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.</p> <p>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."</p>		
Should corrective action be reviewed if land use changes? See above Site Management Requirements		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 8

V. ADDITIONAL COMMENTS AND CONCLUSION

Additional Comments:

Total petroleum hydrocarbons as gasoline (TPHg) and benzene remain in groundwater in the area of the closed-in-place UST at concentrations up to 38,000 and 4,700 micrograms per liter, respectively. Groundwater is typically encountered approximately 7 to 9 feet below ground surface. TPHg and benzene are also present in soils below a depth of approximately 7 feet bgs in the area of the closed-in-place UST. Since the contamination is below the floor of the existing building, exposure to the residual contamination is unlikely unless excavation below the building floor is undertaken. Therefore, the case is closed with site management requirements that require Alameda County Environmental Health review and approval of plans for excavation below a depth of two feet in the area of the closed-in-place underground storage tank.

Naphthalene was not an analyte in shallow soil samples. However, since the release at the site consisted primarily of gasoline and benzene and ethylbenzene concentrations in shallow soil do not exceed media-specific criteria for direct contact, naphthalene concentrations in shallow soil are not likely to exceed the LTCP media-specific criteria

Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case is required if excavation below a depth of two feet in the area of the closed-in-place underground storage tank is planned.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: <i>Jerry Wickham</i>	Date: 12/19/13
Approved by: Dilan Roe	Title: LOP and SCP Program Manager
Signature: <i>Dilan Roe</i>	Date: DECEMBER 19, 2013

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.

VII. REGIONAL BOARD AND PUBLIC NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Regional Board Notification Date: 12/16/2013	
Public Notification Date: 12/16/2013	

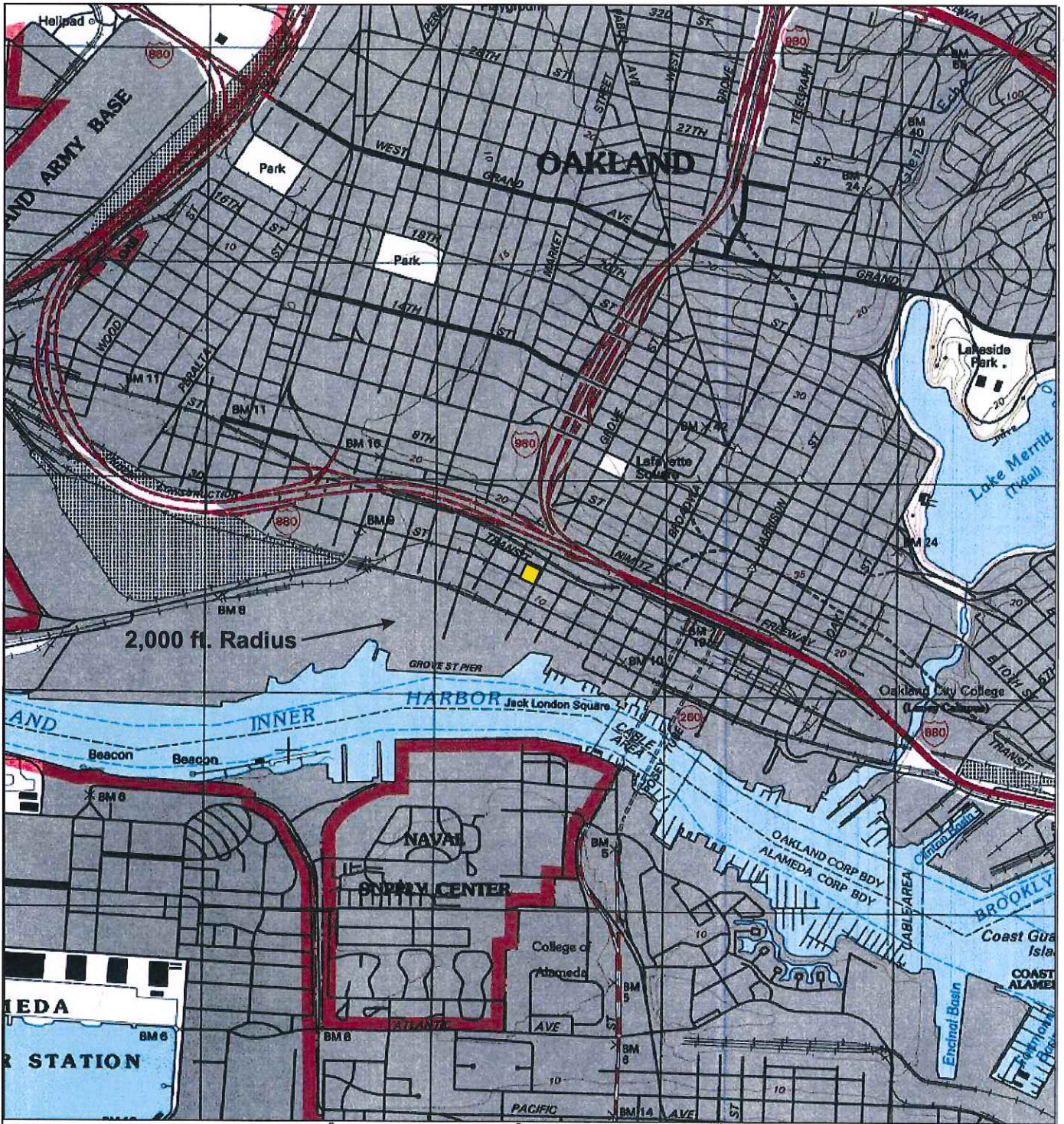
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 02/26/14	Date of Well Decommissioning Report: 03/24/14	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 8	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jerry Wiebhaus</i>		Date: 04/01/14

Attachments:



1. Site Vicinity Map (1 p)
2. Site Plan and Cross Sections (4 pp)
3. Groundwater Elevation Contour and Chemical Concentration Maps (5 pp)
4. Soil Analytical Data (2 pp)
5. Soil Vapor Analytical Data (1 pp)
6. Groundwater Analytical Data (8 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



Map created with TOPOI® ©2003 National Geographic (www.nationalgeographic.com/topo)

LEGEND

  SITE LOCATION

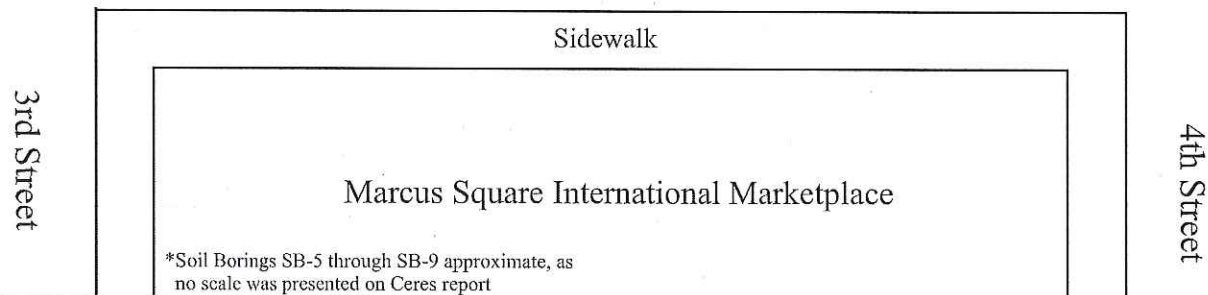
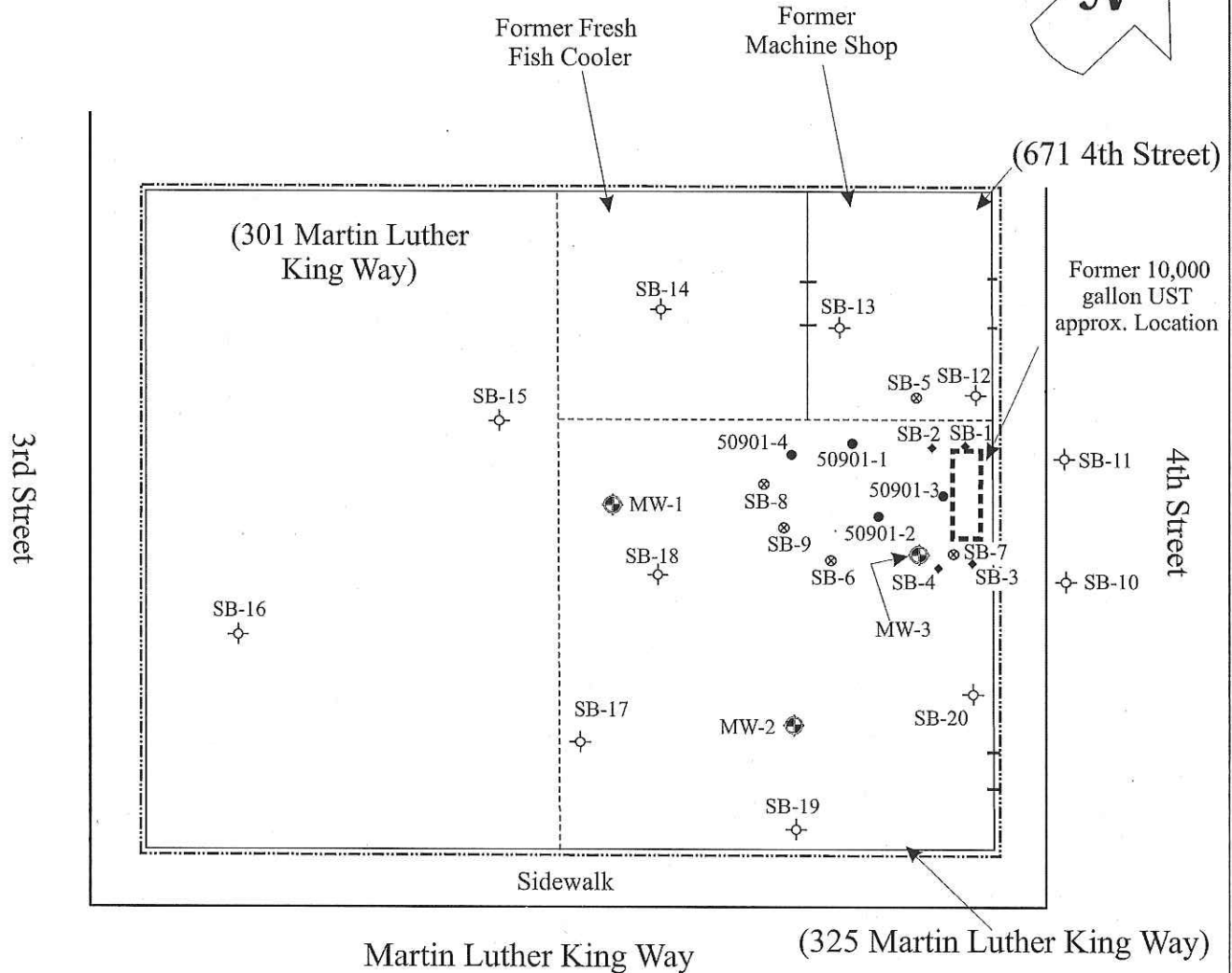
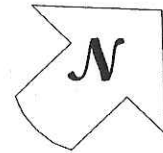
AEI CONSULTANTS
 2500 Camino Diablo, Walnut Creek, CA 94597

SITE LOCATION MAP

325 Martin Luther King Jr. Way
 Oakland, CA 94607

FIGURE 1
 Job No: 277915

0' 20' 40'
Scale: 1" = 40'

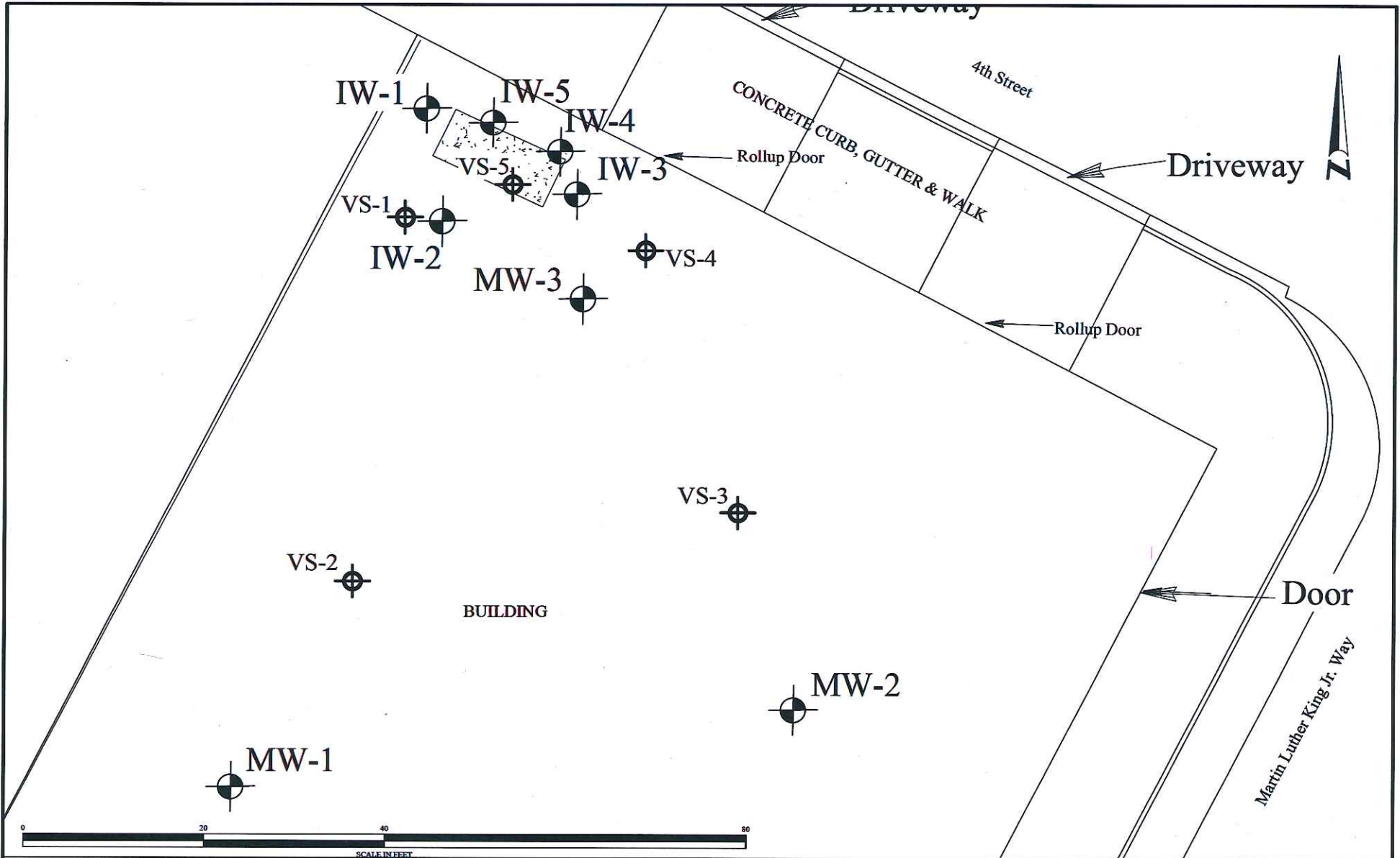








*Soil Borings SB-5 through SB-9 approximate, as no scale was presented on Ceres report

- Designates Building Boundary
- ◆ Soil Boring Location (AEI - 5/11/05)
- Soil Boring Location (TFC - 9/8/05)
- ⊗ Soil Boring Location (Ceres - 6/6/06)
- ⊕ Proposed Soil Boring Location
- ⊕ Proposed Monitoring Well Location
(Locations will be based on sampling results of borings)

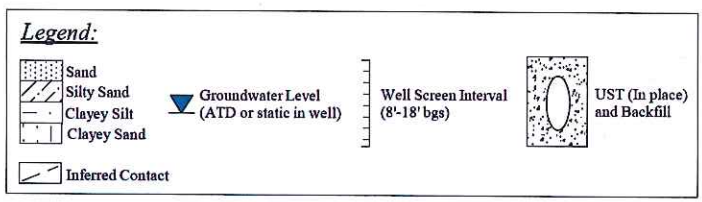
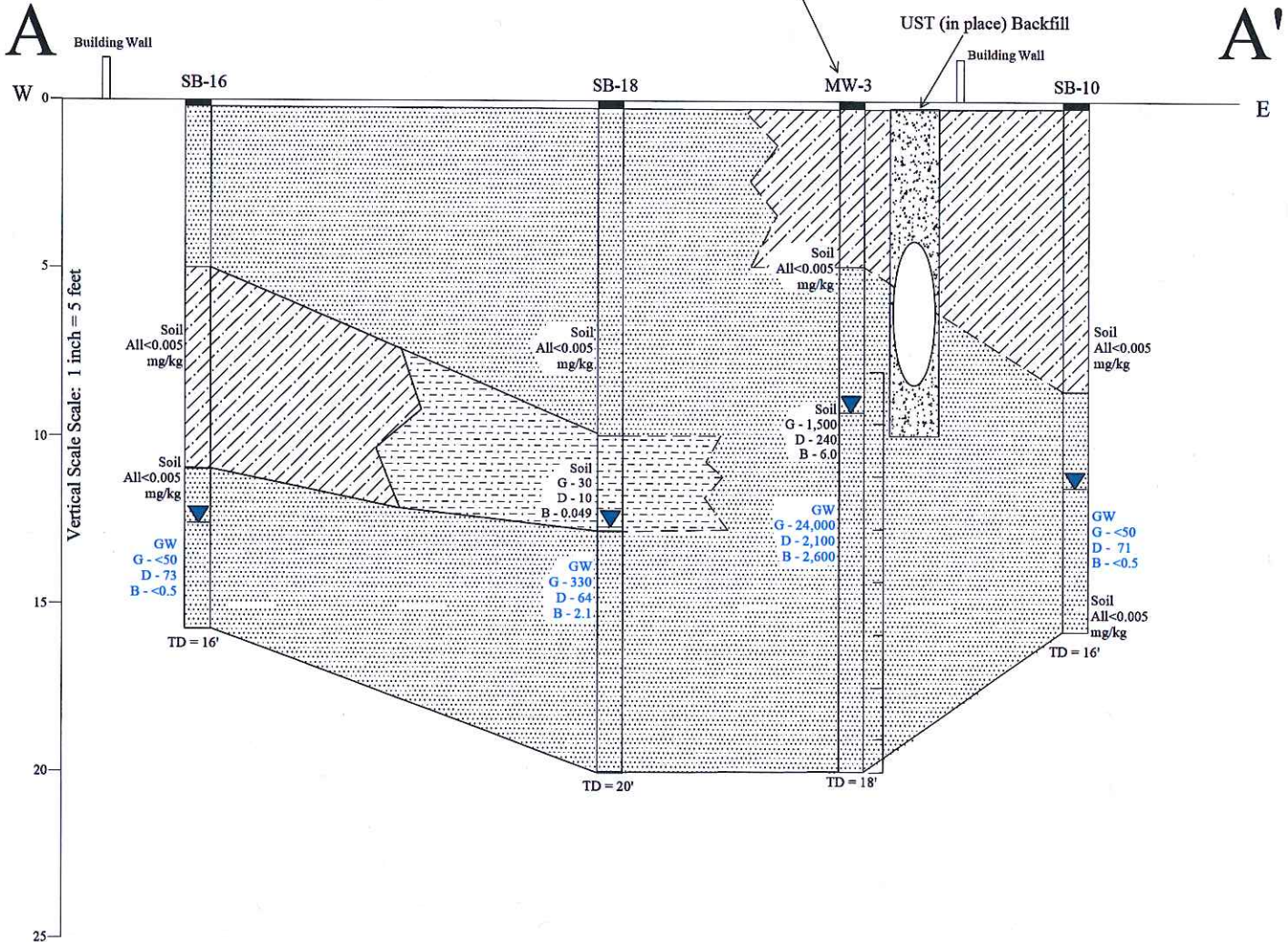
*Soil Borings SB-1 and SB-3 aborted due to refusal

AEI CONSULTANTS 2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA	
SITE PLAN	
325 Martin Luther King Jr. Way Oakland, California	FIGURE 2 PROJECT No. 270308

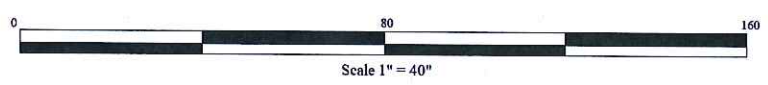


	2" Monitoring / Infusion Well		Abandoned in place UST	Drafted by RFF 3/4/2010 from Morrow 0116-034 MAM Revised by RFF 8/25/2013
	Soil boring - AEI 2005			
	Soil boring - Terra Firma 2005			
	Soil boring - Ceres 2006			
	Soil boring - AEI 2007			

AEI CONSULTANTS 2500 Camino Diablo, Walnut Creek, CA	
Detail Site Plan	
325 Martin Luther king Jr. Way Oakland, California	FIGURE 3 AEI Project # 277915



NOTE:
 Soil concentrations in milligrams per kilogram (mg/kg)
 Groundwater concentrations in micrograms per liter (ug/L)
 G - Gasoline, D - Diesel, B - Benzene
 TD = total depth

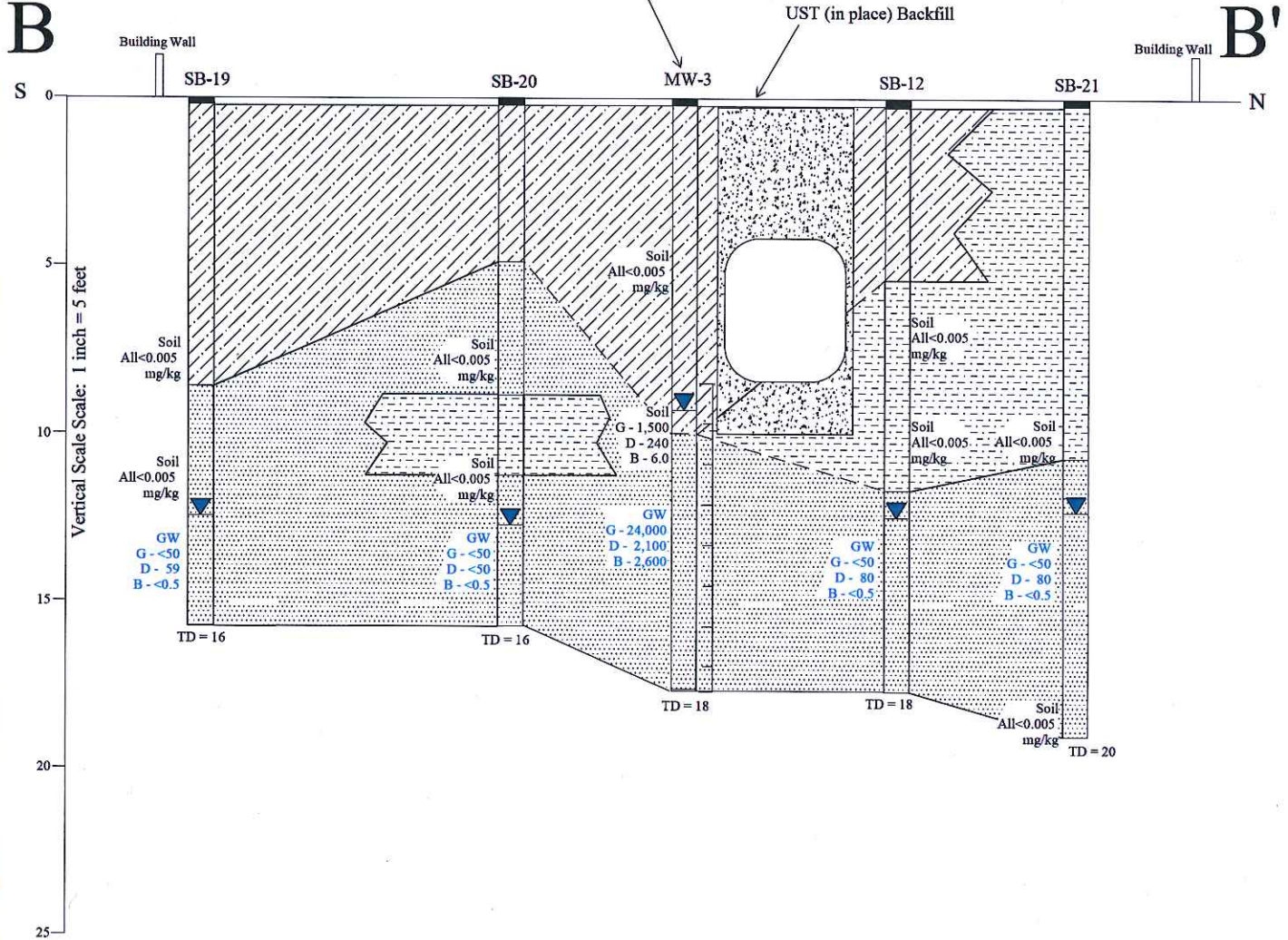


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 2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

A - A' Fence Diagram

325 Martin Luther King Jr Way
 Oakland, CA

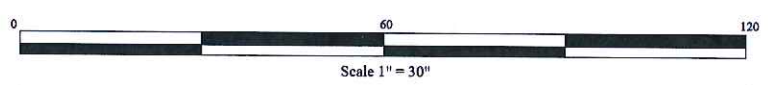
Figure 8
 PROJECT NO. 270308



Legend:

- Sand
- Silty Sand
- Clayey Silt
- Clayey Sand
- Inferred Contact
- Groundwater Level (ATD or static in well)
- Well Screen Interval (8'-18' bgs)
- UST (In place) and Backfill

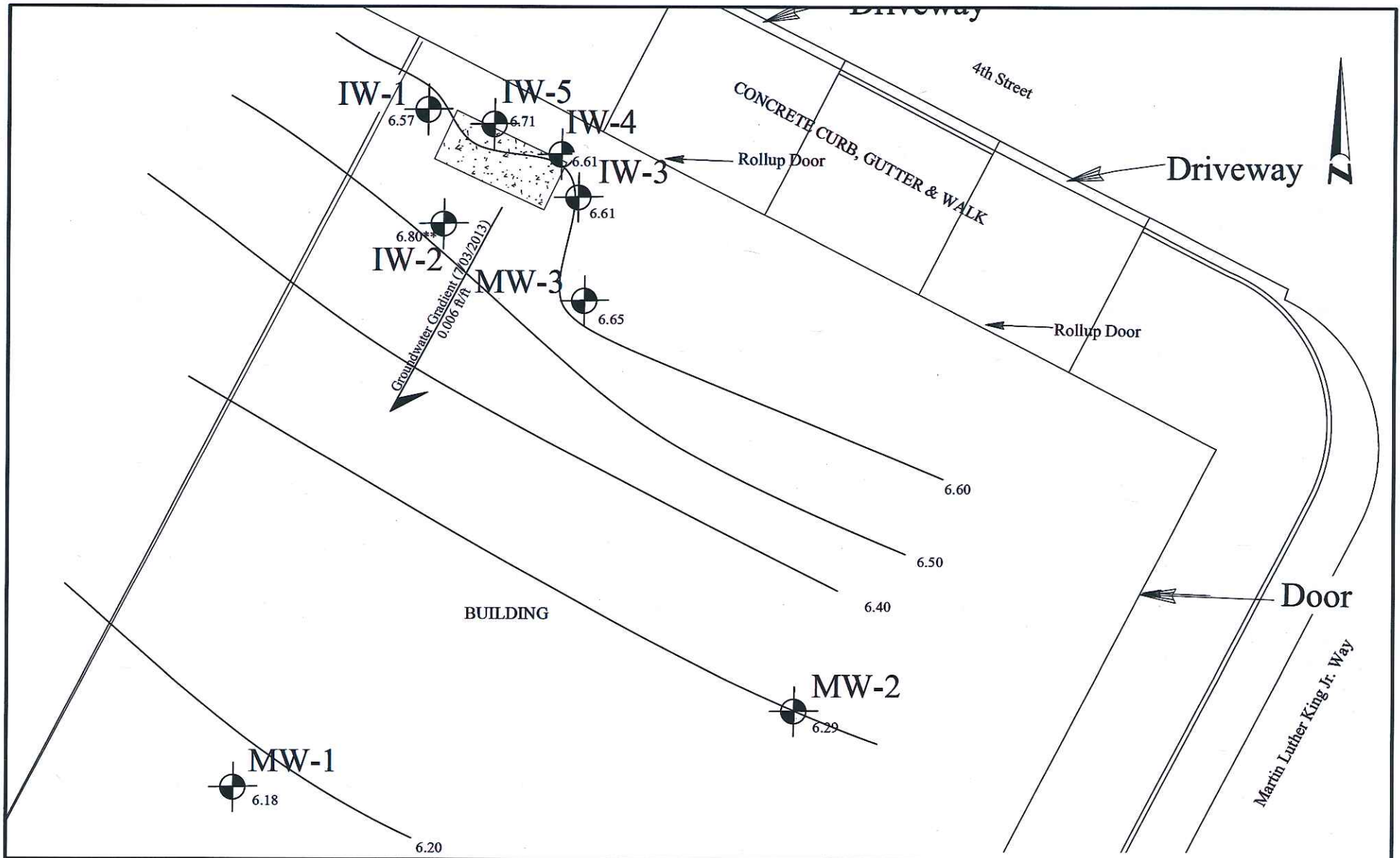
NOTE:
 Soil concentrations in milligrams per kilogram (mg/kg)
 Groundwater concentrations in micrograms per liter (µg/L)
 G - Gasoline, D - Diesel, B - Benzene
 TD - total depth





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 2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

B - B' Fence Diagram

325 Martin Luther King Jr Way Oakland, CA	Figure 9 PROJECT NO. 270308
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-  2" Monitoring / Infusion Well
- 6.80** Elevation not used in contouring
-  Abandoned in place UST

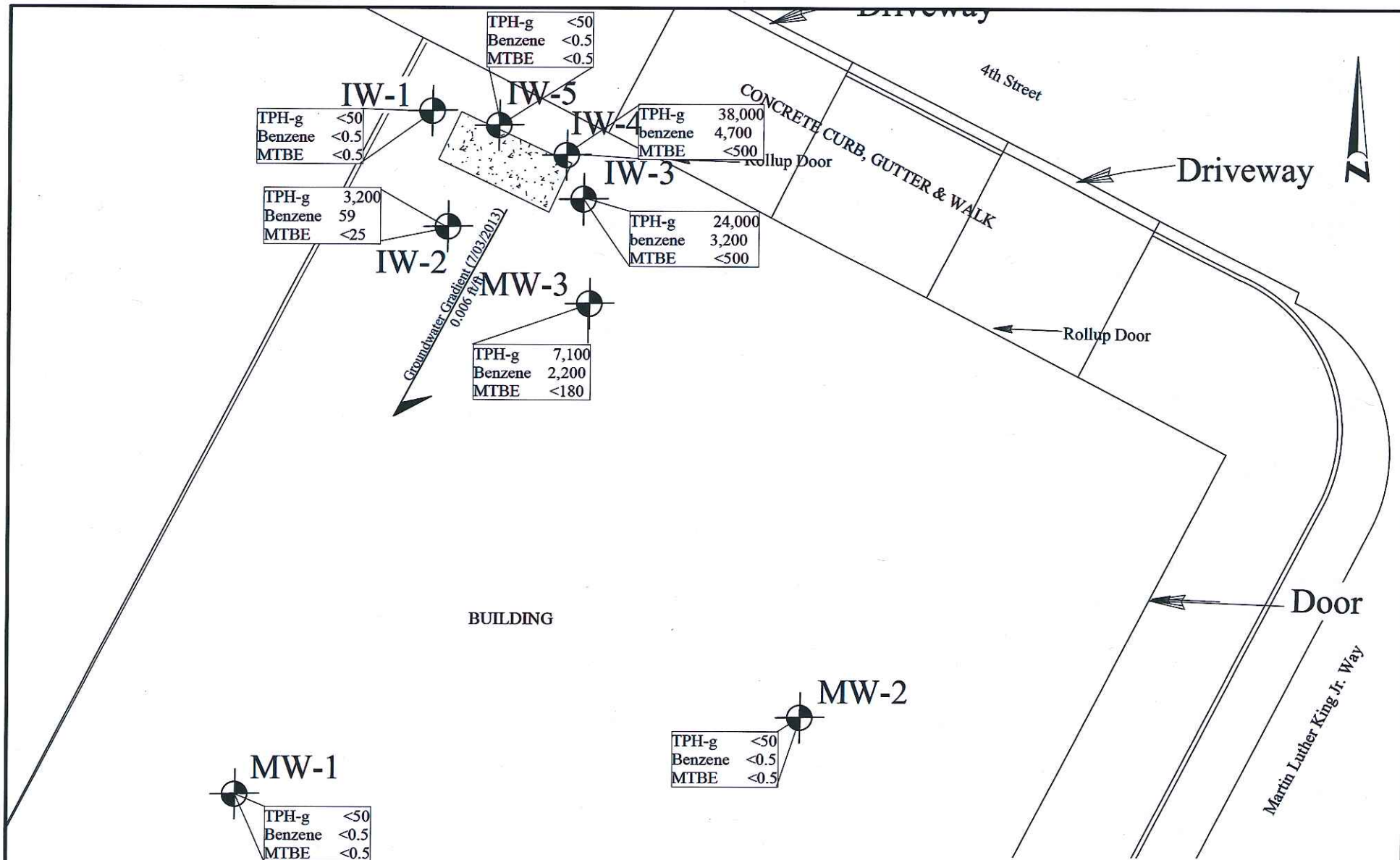


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2500 Camino Diablo, Walnut Creek, CA


Groundwater Gradient (7/03/2013)

325 Martin Luther king Jr. Way
Oakland, California

ATTACHMENT 3



⊕ 2" Monitoring / Infusion Well

 Abandoned in place UST



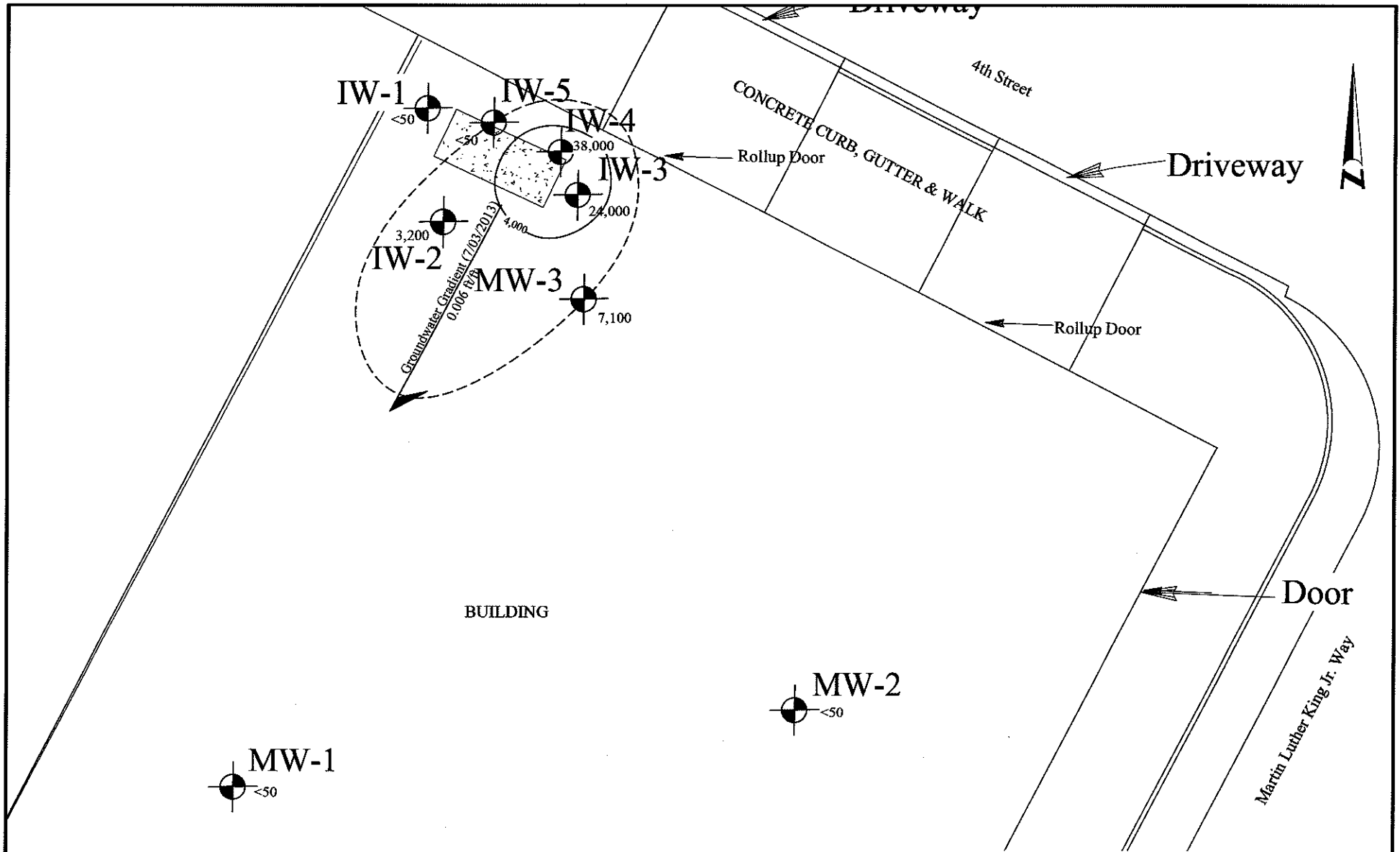
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2500 Camino Diablo, Walnut Creek, CA

Groundwater Analytical Data (7/03/2013)

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 5
AEI Project # 277915



2" Monitoring / Infusion Well

Abandoned in place UST



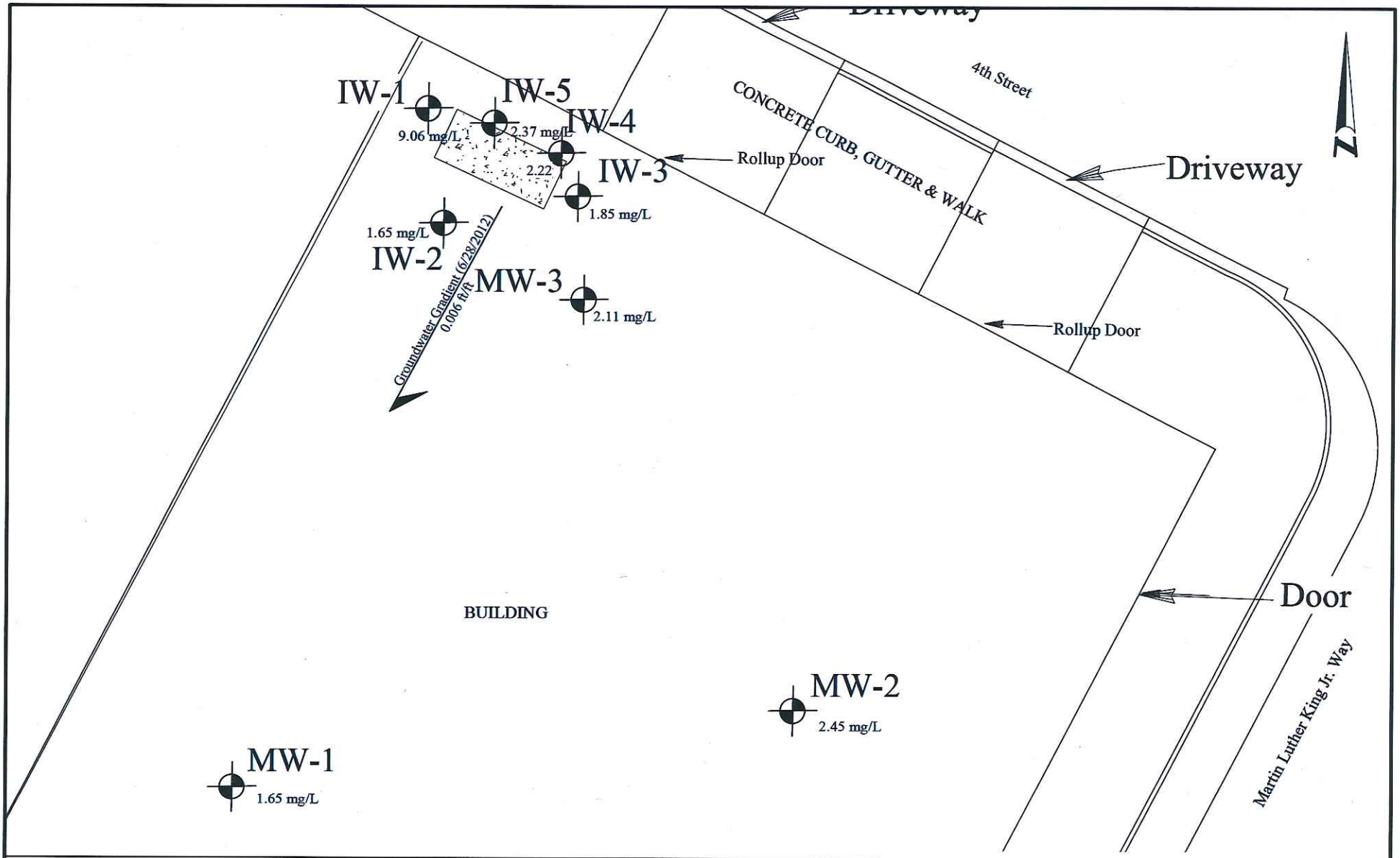
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2500 Camino Diablo, Walnut Creek, CA

TPH-g Isoconcentration Map (7/03/2013)

325 Martin Luther king Jr. Way
Oakland, California

FIGURE 6
AEI Project # 277915



⊕ 2" Monitoring / Infusion Well

▨ Abandoned in place UST



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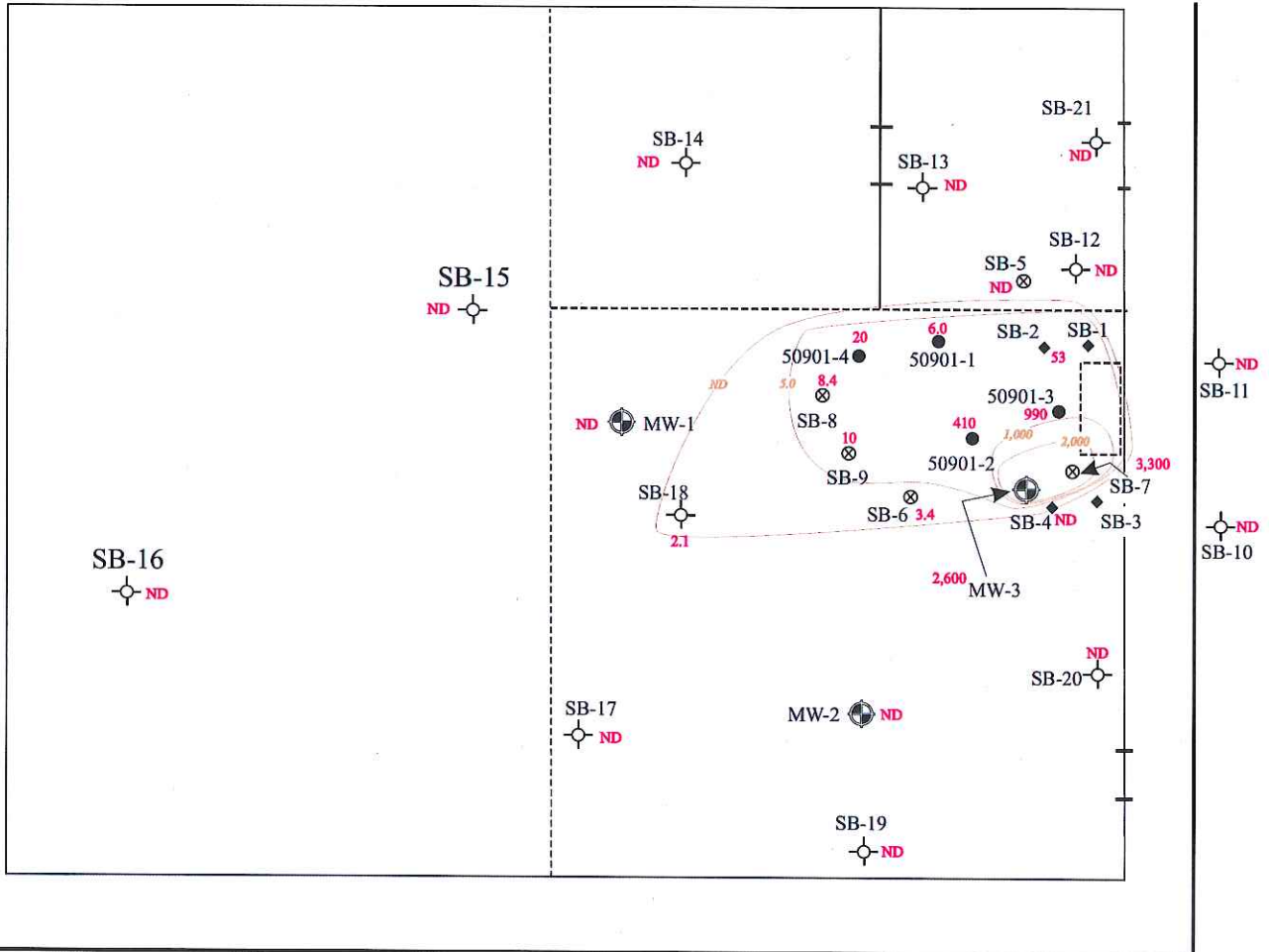
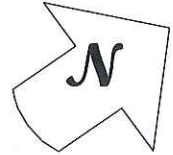
2500 Camino Diablo, Walnut Creek, CA

Dissolved Oxygen Concentrations (7/03/2013)

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 7
AEI Project # 277915

0' 15' 30'
 Scale: 1" = 30'



*Soil Borings SB-5 through SB-9 approximate, as no scale was presented on Ceres report

- Designates Unit Boundary
- ◆ Soil Boring Location (AEI - 5/11/05)
- Soil Boring Location (TFC - 9/8/05)
- ⊗ Soil Boring Location (Ceres - 6/6/06)
- ⊕ Soil Boring Location (AEI - 5/29-30/07)
- ⊙ Monitoring Well Location (8/21/07)

Red values: Detected contaminant concentrations
 Brown values: Isoconcentration contour values

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 2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

Benzene in Groundwater

325 Martin Luther King Jr. Way
 Oakland, California

FIGURE 7
 PROJECT No. 270308

**Table 1
Soil Sample Analytical Data**

Sample ID	Consultant	Date Collected	TPH-g mg/Kg	TPH-d mg/Kg	MTBE mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes mg/Kg
SB-2 12'	AEI	5/11/2005	10	5.6	<0.05	0.25	0.071	0.33	1.6
SB-4 12'	AEI	5/11/2005	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-5-10	Ceres	6/6/2006	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-6-10	Ceres	6/6/2006	5.0	3.1	<0.05	0.023	0.025	0.027	0.64
SB-7-10	Ceres	6/6/2006	20,000	3,300	<45	200	980	320	1,400
SB-7-17	Ceres	6/6/2006	9.2	3.4	<0.1	0.74	0.64	0.16	0.70
SB-8-10	Ceres	6/6/2006	4.7	3.0	<0.05	0.058	0.030	0.083	0.48
SB-9-10	Ceres	6/6/2006	7.5	4.2	<0.05	0.068	0.22	0.21	1.1
SB-10-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-10-16'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-11-11'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-11-16'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-12-7'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-12-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-13-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-13-14'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-14-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-14-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-15-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-15-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-16-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-16-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-17-9'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-17-12'	AEI	5/29-30/07	<1.0	2.7	<0.05	<0.005	<0.005	<0.005	<0.005
SB-18-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-18-12'	AEI	5/29-30/07	30	10	<0.17	0.049	0.22	0.36	1.8
SB-19-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-19-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-20-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-20-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-21-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-21-17'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
RL	-	-	1.0	1.0	0.05	0.005	0.005	0.005	0.005

Notes:
mg/Kg - milligrams per kilogram
TPH - g - Total Petroleum Hydrocarbons as gasoline
TPH - d - Total Petroleum Hydrocarbons as diesel
RL - Reporting Limit
AEI - AEI Consultants
Ceres - Ceres Associates
No known soil data for Terra Firma Consulting report

Table 3
Soil and Groundwater Sample Analytical Data - Fuel Additives

Sample ID	Date Collected	MTBE	TAME	TBA	DIPE	ETBE	Ethanol	Methanol	EDB	1,2-DCA
		<i>EPA 8260B</i>								<i>EPA 6010</i>
		<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>
SB-12-12'	5/29-30/07	<0.005	<0.005	<0.05	<0.005	<0.005	<0.25	<2.5	<0.005	<0.005
SB-17-12'	5/29-30/07	<0.005	<0.005	<0.05	<0.005	<0.005	<0.25	<2.5	<0.005	<0.005
SB-18-12'	5/29-30/07	<0.010	<0.010	<0.10	<0.010	<0.010	<0.50	<5.0	<0.010	<0.010
		<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
SB-10-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-11-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-12-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-13-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-14-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-15-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	4.5
SB-16-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	2.7
SB-17-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	0.52
SB-18-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	1.2
SB-19-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-20-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-21-W	5/29-30/07	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
RL	-	-	-	-	-	-	-	-	-	-

Notes:

mg/Kg - milligrams per kilogram

RL - Reporting Limit (before any dilution)

MTBE - methyl tertiary butyl ether

TAME - tert-amyl methyl ether

TBA - tert-butyl alcohol

DIPE - diisopropyl ether

ETBE - ethyl tert-butyl ether

1,2-DCA - 1,2 - dichloroethane

EDB - 1,2 - dibromoethane

TABLE 5: SOIL GAS SAMPLE ANALYTICAL DATA
Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA

Probe/ Sample ID	Date Collected	Sample Depth (ft bgs)	TPH-g	Benzene	EDB	1,2-DCA	Ethyl benzene	MTBE	Toluene	Xylenes	Isopropyl Alcohol**	
			$\mu\text{g}/\text{m}^3$									
			T03/T015	Method TO-15								
VS-1	7/14/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
VS-1	7/14/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	7/3/2013	5	<1800	<6.5	<16	<8.2	<8.8	<7.3	<7.7	<27	ND	
VS-2	7/14/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
VS-2	7/14/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	7/3/2013	5	<1800	<6.5	<16	<8.2	45	<7.3	<7.7	290	ND	
VS-3	7/14/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
VS-3	7/14/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	7/3/2013	5	<1800	<6.5	<16	<8.2	<8.8	<7.3	<7.7	<27	ND	
VS-4	7/14/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	Subslab	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
VS-4	7/14/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	8/4/2008	5	<1800	<6.5	<16	NA	<8.8	<7.3	<7.7	<27	ND	
	7/3/2013	5	<1800	<6.5	<16	20	<8.8	<7.3	<7.7	<27	ND	
VS-5	7/3/2013	5	<1800	<6.5	<16	<8.2	<8.8	<7.3	<7.7	<27	ND	
ESLs			1,200,000	42	170	580	4,900	49,000	1,300,000	440,000	----	

Notes:

BOLD = value above reporting limit.

BOLD RED = value exceed ESL

Isopropyl alcohol (2-Propanol) is the tracer/leak check compound

* = Isopropyl Alcohol reporting limit 7/14/2008, 8/4/2008 ND<10 $\mu\text{g}/\text{L}$, 7/03/2013 ND<50 mg/m^3

ft bgs = feet below ground surface

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

TPH-g = total petroleum hydrocarbons as gasoline, 7/14/2008, 8/4/2008 by T03, 7/03/2013 by T015

MTBE = methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-dichloroethane

ESLs = SF Bay RWQCB Environmental Screening Levels for shallow soil gas, commercial/industrial land use, Table E-2, May 2013

**Table 3 - Groundwater Analytical Data
Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA**

Sample ID	Date	Depth to Water	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes		
			Method 8015			Method 8021B					
			µg/L								
MW-1	8/21/2007	8.38	<50	<50	15	<0.5	<0.5	<0.5	<0.5		
	11/21/2007	8.37	<50	<50	12	<0.5	<0.5	<0.5	<0.5		
	2/26/2008	7.98	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	6/18/2008	8.41	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	9/19/2008	8.56	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	12/29/2008	8.66	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	3/17/2009	7.84	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	6/15/2009	8.31	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	9/18/2009	8.59	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	3/16/2010	7.80	<50	-	-	<0.5	<0.5	<0.5	<0.5		
	9/9/2010	7.75	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/24/2011	7.66	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/14/2011	8.85	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	6/28/2012	8.41	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/21/2012	8.72	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
7/3/2013	8.69	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5			
MW-2	8/21/2007	8.78	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5		
	11/21/2007	8.72	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5		
	2/26/2008	8.37	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	6/18/2008	53.00	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	9/19/2008	8.92	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	12/29/2008	8.87	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	3/17/2009	8.27	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	6/15/2009	8.71	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	9/18/2009	8.98	<50	<50	-	<0.5	<0.5	<0.5	<0.5		
	3/16/2010	8.19	<50	-	-	<0.5	<0.5	<0.5	<0.5		
	9/9/2010	9.04	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/24/2011	7.89	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/14/2011	9.17	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	6/28/2012	8.80	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/21/2012	9.02	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
7/3/2013	8.98	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5			
MW-3	8/21/2007	8.59	24,000	2,100	<180	2,600	3,500	450	2,400		
	11/21/2007	8.55	36,000	3,800	<500	4,900	1,200	230	2,700		
	2/26/2008	8.11	31,000	5,400	-	4,200	1,900	590	2,200		
	6/18/2008	8.62	20,000	3,000	-	2,900	1,100	390	990		
	8/4/2008	8.65	110,000	27,000	-	5,900	9,000	76	8,100		
	8/20/2008	8.68	120,000	6,500	-	8,900	18,000	930	12,000		
	9/19/2008	8.74	64,000	4,500	-	6,200	9,200	660	6,600		
	12/29/2008	8.67	130,000	7,900	-	11,000	19,000	1,800	11,000		
	3/17/2009	7.96	83,000	8,000	-	7,400	10,000	1,100	8,500		
	6/15/2009	8.47	67,000	21,000	-	11,000	9,100	1,200	6,800		
9/18/2009	8.78	58,000	16,000	-	11,000	7,000	1,400	4,700			

**Table 3 - Groundwater Analytical Data
Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA**

Sample ID	Date	Depth to Water	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes		
			Method 8015			Method 8021B					
			µg/L								
MW-3 continued	10/30/2009	6.64	59,000	-	-	10,000	7,100	1,200	3,900		
	2/8/2010	7.74	13,000	-	<50	840	1,500	120	1,700		
	2/24/2010	8.03	16,000	-	<50	1,200	1,700	200	1,900		
	3/16/2010	7.75	34,000	-	<250	3,000	4,100	580	4,100		
	4/15/2010	-	-	-	-	-	-	-	-		
	5/24/2010	-	11,000	-	<250	910	1,600	120	2,400		
	7/19/2010	8.33	270	-	<5.0	2.7	2.9	<0.5	4.8		
	8/5/2010	8.35	350	-	<5.0	15	6.3	4	46		
	9/9/2010	8.67	1,200	360	-	57	8.3	18	160		
	12/29/2010	-	130	-	<5.0	0.79	1.2	<0.5	3.1		
	2/7/2011	-	<50	-	<5.0	2.3	1.0	<0.5	6.4		
	3/24/2011	7.35	140	<50	<5.0	4.9	6.7	0.6	19		
	8/9/2011	-	590	200	<5.0	38	2.3	<0.5	60		
	12/14/2011	8.78	4,900	1,000	<120	1,400	28	54	250		
	6/28/2012	8.30	<50	-	<5.0	<0.5	<0.5	<0.5	0.86		
	7/27/2012	8.48	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	8/27/2012	8.59	51	<50	<5.0	2.4	<0.5	<0.5	4.9		
	9/21/2012	8.61	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5		
	10/24/2012	-	510	-	32	100	3.2	3.7	10		
	11/20/2012	-	850	-	9.2	290	8.2	11.0	23		
1/8/2013	-	390	-	<5.0	24	1.5	<5.0	17			
4/3/2013	-	6,400	-	<150	2400	37	120	92			
7/3/2013	8.55	7,100	-	ND<180	2,200	35	170	72			
IW-1	10/30/2009	8.53	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/16/2010	7.68	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/9/2010	8.73	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/24/2011	7.36	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/14/2011	8.85	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	6/28/2012	8.41	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/21/2012	8.66	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
	7/3/2013	8.63	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5		
IW-2	10/30/2009	8.37	15,000	-	-	1,100	2,100	630	2,400		
	2/8/2010	7.70	630	-	<5.0	4.4	17	3.7	78		
	2/24/2010	-	3,500	-	<50	22	220	57	590		
	3/16/2010	7.57	20,000	-	<100	320	2,100	450	4,000		
	4/15/2010	-	-	-	-	-	-	-	-		
	5/24/2010	-	190	-	<5.0	0.82	6.9	1.0	20		
	7/19/2010	8.29	600	-	<5.0	5.8	43	5.3	110		
	8/5/2010	8.39	340	-	<5.0	1.8	14	2.7	74		
	9/9/2010	8.62	5,100	660	-	59	330	57.0	1,100		
	12/29/2010	-	<50	-	<5.0	<0.5	<0.5	<0.5	0.62		

**Table 3 - Groundwater Analytical Data
Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA**

Sample ID	Date	Depth to Water	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes
			Method 8015		Method 8021B				
			µg/L						
IW-2 continued	2/7/2011	-	<50	<50	<5.0	<0.5	<0.5	<0.5	0.98
	3/24/2011	7.26	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	8/9/2011	-	1,700	-	<10	40	2.5	1.9	270
	12/14/2011	8.72	2,900	710	<50	110	5.9	29	430
	6/28/2012	8.28	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5
	9/21/2012	8.54	91	<50	<5.0	0.89	<0.5	<0.5	7.5
	7/3/2013	8.49	3,200	-	<25	59	6.0	55	360
IW-3	10/30/2009	8.68	61,000	-	<1,000	10,000	14,000	1,400	9,800
	11/5/2009	8.60	64,000	-	<150	4,000	7,500	1,100	1,100
	11/23/2009	-	77,000	-	<250	6,700	11,000	430	11,000
	2/8/2010	7.74	18,000	-	<50	790	910	38	2,600
	2/24/2010	-	36,000	-	<250	2,400	4,300	320	460
	3/16/2010	7.82	44,000	-	<500	3,200	6,000	650	5,400
	4/15/2010	-	-	-	-	-	-	-	-
	5/24/2010	-	4,300	-	<60	170	430	19	680
	7/19/2010	8.51	4,100	-	<50	190	450	28	440
	8/5/2010	8.56	5,400	-	<50	360	780	62	730
	9/9/2010	8.83	22,000	3,230	-	1,800	3,900	310	3,300
	12/29/2010	-	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5
	2/7/2011	-	2,700	870	<50	180	330	18	360
	3/24/2011	7.44	390	290	<5.0	3.7	7.4	2.4	53
	8/9/2011	-	9,600	800	<250	2400	940	150	1,300
	12/14/2011	8.91	36,000	4,200	<450	4,600	2,700	300	4,000
	3/27/2012	-	390	-	<5.0	8.8	11	1.3	58
	6/28/2012	8.45	91	-	<5.0	1.1	1.6	<0.5	3.7
	7/27/2012	8.6	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5
	8/27/2012	8.72	1,100	-	<45	100	160	5.1	150
	9/21/2012	8.75	4,300	360	<50	460	580	32	560
	10/24/2012	-	4,400	-	51	540	880	26	730
	11/20/2012	-	6,400	-	<50	550	1000	34	940
	1/8/2013	-	13,000	-	<250	580	1100	81	660
	4/3/2013	-	16,000	-	<500	2,700	1,100	200	2,100
	7/3/2013	8.68	24,000	-	<500	3,200	2,500	230	3,600

**Table 3 - Groundwater Analytical Data
Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA**

Sample ID	Date	Depth to Water	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	
			Method 8015		Method 8021B					
			µg/L							
IW-4	12/14/2011	8.38	95,000	5,600	<1,000	13,000	13,000	1,200	7,400	
	3/27/2012	-	1,700	-	<5.0	64	150	29	160	
	6/28/2012	7.92	1,400	-	<5.0	49	190	29	140	
	7/27/2012	8.03	270	-	<5.0	2.0	4.3	1.5	3.4	
	8/27/2012	8.16	2,900	-	<50	230	520	46	260	
	9/21/2012	8.22	4,500	150	<50	350	820	64	370	
	10/24/2012	-	21,000	-	ND<250	2,000	4,000	350	2,100	
	11/20/2012	-	8,700	-	<100	850	1,900	140	910	
	1/8/2013	-	6,500	-	<90	580	1,100	81	660	
	4/3/2013	-	16,000	-	<500	1,900	2,300	240	1,600	
7/3/2013	8.13	38,000	-	<500	4,700	7,000	620	3,300		
IW-5	12/14/2011	8.18	250	190	<5.0	11	0.56	<0.5	8.0	
	6/28/2012	7.72	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5	
	9/21/2012	8.01	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5	
	7/3/2013	7.83	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5	
GW ESL (NDW) Gross Contamination			2,500	2,500	1,800	2,000	400	300	5,300	
GW ESL (NDW) Aquatic Habitat			210	210	1,800	46	130	43	100	

Notes:

TPHg = total petroleum hydrocarbons as gasoline (C6-C12)

TPHd = total petroleum hydrocarbons as diesel (C10-C23)

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B

MTBE = methyl-tertiary butyl ether

mg/L= micrograms per liter

ND<50 = non detect at respective reporting limit

Table 4 - Groundwater Analytical Data - Fuel Additives

Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA

Sample ID	Date	TAME	TBA	EDB	1,2-DCA	DIPE	ETBE	MTBE
		mg/L						
MW-1	08/21/07	<0.5	<5.0	<0.5	5.2	<0.5	<0.5	18
	11/21/07	-	-	-	-	-	-	-
	02/26/08	-	-	<0.5	6.9	-	-	16
	06/18/08	-	-	<0.5	5.4	-	-	15
	09/19/08	-	-	<0.5	6.8	-	-	4.2
	12/29/08	-	-	<0.5	6.8	-	-	0.62
	03/17/09	-	-	<0.5	4.6	-	-	11
	06/15/09	-	-	<0.5	5.8	-	-	8.1
	09/18/09	-	-	<0.5	5.2	-	-	0.7
	03/24/11	<0.5	<2.0	<0.5	9.3	<0.5	<0.5	1.9
	06/28/12	<0.5	<2.0	<0.5	7.0	<0.5	<0.5	0.73
	09/21/12	<0.5	<2.0	<0.5	13	<0.5	<0.5	1.2
	07/03/13	<0.5	4.5	<0.5	21	<0.5	<0.5	0.78
MW-2	08/21/07	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
	11/21/07	-	-	-	-	-	-	-
	02/26/08	-	-	<0.5	<0.5	-	-	<0.5
	06/18/08	-	-	<0.5	<0.5	-	-	<0.5
	09/19/08	-	-	<0.5	<0.5	-	-	<0.5
	12/29/08	-	-	<0.5	<0.5	-	-	<0.5
	03/17/09	-	-	<0.5	<0.5	-	-	<0.5
	06/15/09	-	-	<0.5	<0.5	-	-	<0.5
	09/18/09	-	-	<0.5	<0.5	-	-	<0.5
	03/24/11	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	06/28/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	09/21/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	07/03/13	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	08/21/07	<5.0	<50	34	140	<5.0	<5.0	<5.0
	11/21/07	-	-	-	-	-	-	-
	02/26/08	-	-	31	220	-	-	<12
	06/18/08	-	-	21	190	-	-	<5.0
	08/04/08	-	-	220	410	-	-	<50
	08/20/08	-	-	330	410	-	-	<50
	09/19/08	-	-	160	320	-	-	<17
	12/29/08	-	-	200	440	-	-	<50
	03/17/09	-	-	98	370	-	-	<25
	06/15/09	-	-	87	490	-	-	<50
	09/18/09	-	-	110	500	-	-	<17
	10/30/09	-	-	96	470	-	-	<50
	02/08/10	-	-	42	42	-	-	<50
	03/16/10	<25	430	110	130	<25	<25	<25
	03/24/11	<0.5	10	2.2	0.61	<5.0	<5.0	<5.0
	06/28/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	09/21/12	<0.5	<2.0	1.1	4.4	<0.5	<0.5	<0.5
07/03/13	<5.0	<20	<5.0	120	<5.0	<5.0	<5.0	

Table 4 - Groundwater Analytical Data - Fuel Additives
Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA

Sample ID	Date	TAME	TBA	EDB	1,2-DCA	DIPE	ETBE	MTBE
		mg/L						
IW-1	10/30/09	-	-	<0.5	<0.5	-	-	<0.5
	03/16/10	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	03/24/11	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	06/28/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	09/21/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	07/03/13	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
IW-2	10/30/09	-	-	13	51	-	-	<10
	02/08/10	-	-	5.1	3.9	-	-	
	03/16/10	<10	70	20	15	<10	<10	<10
	03/24/11	<0.5	5.2	<0.5	<0.5	<0.5	<0.5	<0.5
	06/28/12	<0.5	2.5	1.3	<0.5	<0.5	<0.5	<0.5
	09/21/12	<1.7	33	<1.7	29	<1.7	<1.7	<1.7
IW-3	10/30/09	-	-	220	480	-	-	<10
	02/08/10	-	-	94	82	-	-	
	03/16/10	<25	120	230	220	<25	<25	<25
	03/24/11	<0.5	47	22	13	<0.5	<0.5	<0.5
	03/27/12	<0.5	13	8.2	4.5	<0.5	<0.5	<0.5
	06/28/12	<0.5	4.2	2.4	1.5	<0.5	<0.5	<0.5
	09/21/12	<2.5	52	2.4	51	<2.5	<2.5	<2.5
	07/03/13	<5.0	<20	31	170	<5.0	<5.0	<5.0
IW-4	03/27/12	<0.5	9.7	8.4	4.0	<0.5	<0.5	<0.5
	06/28/12	<0.5	4.7	2.3	0.62	<0.5	<0.5	<0.5
	09/21/12	<1.2	19	48	30	<1.2	<1.2	<1.2
	07/03/13	<5.0	<20	87	150	<5.0	<5.0	<5.0
IW-5	06/28/12	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	09/21/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	07/03/13	<0.5	<2.0	<0.5	1.5	<0.5	<0.5	<0.5
GW ESL (NDW) GC	-	54,000	50,000	50,000	-	-	1,800	
GW ESL (NDW) AH	-	18,000	150	200	-	-	1,800	
DW - Ceiling Value	-	50,000	50,000	50,000	-	-	5	
DW -VI	-	use soil gas	150	150	-	-	24,000	
DW Toxicity	-	12	0.05	0.5	-	-	13	

Notes: TAME - tert-amyl methyl ether
mg/L= micrograms per liter TBA - tert-butyl alcohol
ND<50 = non detect at respective reporting DIPE - diisopropyl ether
MTBE - methyl tertiary butyl ether ETBE - ethyl tert-butyl ether

Table 2
Groundwater Sample Analytical Data

Sample ID	Consultant	Date Collected	TPH-g ug/L	TPH-d ug/L	MTBE ug/L	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L
SB-2W	AEI	5/11/2005	780	420	<5.0	53	9.0	35	100
SB-4W	AEI	5/11/2005	<50	<50	<5.0	<0.5	<0.005	<0.005	0.76
50901-1	TFC	9/8/2005	860	740	-	6.0	7.5	22	100
50901-2	TFC	9/8/2005	13,000	3,600	-	410	1,200	390	1,700
50901-3	TFC	9/8/2005	20,000	2,000	-	990	3,100	590	2,300
50901-4	TFC	9/8/2005	550	230	-	20	17	19	56
SB5-GW	Ceres	6/6/2006	<50	170	<5.0	<0.5	<0.5	<0.5	1.8
SB6-GW	Ceres	6/6/2006	380	290	<5.0	3.4	1.8	3.8	51
SB7-GW	Ceres	6/6/2006	100,000	110,000	<100	3,300	11,000	2,100	20,000
SB8-GW	Ceres	6/6/2006	580	550	<5.0	8.4	3.6	18	47
SB9-GW	Ceres	6/6/2006	610	360	<5.0	10	15	21	70
SB-10-W	AEI	5/29-30/07	<50	71	<5.0	<0.5	<0.5	<0.5	<0.5
SB-11-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-12-W	AEI	5/29-30/07	<50	80	<5.0	<0.5	<0.5	<0.5	<0.5
SB-13-W	AEI	5/29-30/07	<50	130	<5.0	<0.5	<0.5	<0.5	<0.5
SB-14-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-15-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-16-W	AEI	5/29-30/07	<50	73	<5.0	<0.5	<0.5	<0.5	<0.5
SB-17-W	AEI	5/29-30/07	<50	160	<5.0	<0.5	<0.5	<0.5	<0.5
SB-18-W	AEI	5/29-30/07	330	64	14	2.1	5.4	8.9	31
SB-19-W	AEI	5/29-30/07	<50	59	<5.0	<0.5	<0.5	<0.5	<0.5
SB-20-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-21-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
RL	-	-	50	50	5.0	0.5	0.5	0.5	0.5

Notes:
 ug/L - milligrams per kilogram
 TPH-g - Total Petroleum Hydrocarbons as gasoline
 TPH-d - Total Petroleum Hydrocarbons as diesel
 RL - reporting limit
 AEI - AEI Consultants
 TFC - Terra Firma Consulting
 Ceres - Ceres Associates

Table 1 - Well Construction Details**Allen Project, 325 Martin Luther King Jr. Way, Oakland, CA**

Well ID	Date Installed	Top of Casing Elevation (ft amsl)	Well Box Elevation (ft amsl)	Well Depth (ft)	Slotted Casing (ft)	Slot Size (in)	Sand Interval (ft)	Sand Size	Bentonite Interval (ft)	Grout Interval (ft)
MW-1	08/10/07	14.87*	15.34	18	8 - 18	0.010	7 - 18	# 2/12	7 - 8	0.75 - 7
MW-2	08/10/07	15.27	15.52	17	7 - 17	0.010	6 - 17	# 2/12	6 - 7	0.75 - 6
MW-3	08/10/07	15.11*	15.57	18	8 - 18	0.010	7 - 18	# 2/12	7 - 8	0.75 - 7
IW-1	10/13/09	15.20**	15.61	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3
IW-2	10/13/09	15.04**	15.63	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3
IW-3	10/13/09	15.29**	15.60	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3
IW-4	12/01/11	14.74	15.66	15	5 - 15	0.010	4 - 15	2/12	3 - 4	1 - 3
IW-5	12/01/11	14.54	15.64	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3

Notes:

ft amsl = feet above mean sea level

14.87* = Casing elevation changes, 02/09/2010

15.29** = Casing elevation changes, 12/06/2012