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By Alameda County Environmental Health at 3:20 pm, Feb 28, 2014

February 28, 2014

Mr. Keith Nowell
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Focused Site Conceptual Model -Draft
Site: 76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California
Fuel Leak Case No. RO0000229

Dear Mr. Nowell;

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call:

Brian Whalen
Platinum Energy
30343 Canwood Street, Suite 200
Agoura Hills, California 91301
Tel: (818) 206-5704
Fax: (818) 206-5721
bwhalen@platinum-energy.com

Sincerely,

PLATINUM ENERGY



BRIAN WHALEN

Attachment

Focused Site Conceptual Model - Draft

*76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California*

*Alameda County Health Care Services
Agency
Fuel Leak Case No. R00000229*

*San Francisco Bay Regional Water Quality
Control Board
No. 01-1588*

GeoTracker Global ID No. T0600101463

Antea Group Project No. I40255325

February 28, 2014

Prepared for:
Mr. Keith Nowell
Alameda County Health Care
Services Agency
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502

Prepared by:
Antea™Group
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Appendix B	Historical Groundwater Gauging and Analytical Data
Appendix C	Historical Groundwater Contour Maps
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1.0 INTRODUCTION

Antea Group has prepared this Focused Site Conceptual Model - Draft as requested in an email from the Alameda County Health Care Services Agency (ACHCSA), dated January 13, 2014. A copy of this email is presented as **Appendix A**. The purpose of this report is to review data gaps associated with the site as discussed with the ACHCSA in a meeting held on January 13, 2014.

1.1 Site Description

The site is located on the southeast corner of the intersection of Lakeshore Avenue and Lake Park Avenue in Oakland, California (**Figure 1**). The site is bounded to the north by Lakeshore Avenue; to the west and southwest by Lake Park Avenue; to the southeast by a supermarket parking lot; and to the east by a pharmacy. Station facilities include a service station building with one service bay, three fuel dispenser islands, and two 12,000-gallon double-wall fiberglass, gasoline underground storage tanks (USTs) (**Figure 2**).

2.0 PLUME STABILITY

2.1 Free Product

Historically, free product has been observed in on-site monitoring wells U-1 and U-2. Free product was first observed in monitoring well U-1 in March 1995 at a thickness of 0.36 feet. The maximum thickness of free product in monitoring well U-1 was reported in March 1997 at 0.55 feet. Measurable free product has not been observed in monitoring well U-1 since March 1998 when it was reported at a thickness of 0.03 feet. Measurable free product in monitoring well U-2 has only been reported during one sampling event, March 1997 at a thickness of 0.02 feet. Measurable free product has not been observed in monitoring wells U-3 through U-6. Historical groundwater gauging and analytical data is presented as **Appendix B**.

Depth to water in monitoring well U-1 ranged from 6.88 feet below top of casing (btoc) to 9.30 feet btoc during the events where measurable free product was present in the well. There does not appear to be a correlation between the depth to water and the presence of measurable free product. The depth to water reported while free product was present in the well are within historical and present day water levels. The reported depth to water during the third quarter 2013 monitoring and sampling event was 8.59 feet btoc.

Depth to water in monitoring well U-2 was reported at 7.11 feet btoc during the March 1997 sampling event, when free product was observed. This reported depth to water is within historical and present day water levels and does not suggest that there is a correlation between the depth to water and presence of free product in monitoring well U-2. The depth to water reported during the third quarter 2013 monitoring and sampling event was 7.16 feet btoc.

2.2 Groundwater Flow

Groundwater flow at the site has been interpreted to be radially outward during 14 monitoring and sampling events conducted at the site since the first quarter 2004. Historical groundwater elevation contour maps are presented as **Appendix C**. In reviewing topographic maps of the area and elevation data available on Google Earth, it appears that there is a slight ridge that runs through the center of the site from the southeast to the northwest. Based on the elevation data the trend for groundwater flow is interpreted as radially outward, south-southwest and north-northeast. It appears that groundwater flow typically follows the surface contours. If the plume were migrating off-site, it would be expected that concentrations of contaminants of concern (COCs) would increase in monitoring well U-3, U-6, and possibly U-5. These monitoring wells are located radially out from the plume center surrounding monitoring wells U-1 and U-2. However, in reviewing historical analytical data, concentration in monitoring wells U-5 and U-6 have decreased over time and concentrations in monitoring well U-3 have historically been below the laboratory's indicated reporting limits except for methyl tertiary-butyl ether (MTBE) and three detections of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX).

2.3 Contaminants of Concern

The COCs for this site include TPHg, MTBE, and tertiary-butyl alcohol (TBA). Concentration vs. Time graphs for TPHg, MTBE, TBA, and depth to water (DTW) since 2005 for monitoring wells U-1, U-2, U-5, and U-6 are presented as **Appendix D**. Isoconcentration maps for TPHg, MTBE, and TBA are presented on **Figures 3** through **5**. Based on the trend graphs, concentrations of TPHg, MTBE, and TBA appear to be decreasing over time in monitoring wells U-1, U-2, U-5, and U-6. There also does not appear to be a definite correlation between DTW and COC concentrations reported in the monitoring wells. TBA concentrations in the four monitoring wells may have correlated to DTW in 2005, however, TBA was not analyzed on a regular basis between 2006 and 2009, and since 2009, it does not appear as if TBA concentrations correlate to DTW.

3.0 PREFERENTIAL PATHWAYS AND SENSITIVE RECEPTORS

3.1 Sanitary Sewer

The sanitary sewer main runs along the center of Lakeshore Avenue northeast to southwest. Antea Group conducted a utility survey on February 19, 2014 to try and identify the depth of the sanitary sewer. Given the location of the sanitary sewer main being in the middle of Lakeshore Avenue, it was not possible to ascertain the depth of the sanitary sewer main. Antea Group contacted the City of Oakland in an attempt to ascertain the depth of the sanitary sewer main; however, the maps that the City of Oakland uses do not show the depth of the utility lines. The Alameda County Environmental Health (ACEH) case file contained a report titled MISC_R_1997-02-28 which contained survey data of the sanitary sewer and storm drain in Lakeshore Avenue. According to the report, the bottom of the sanitary sewer main is located at a depth of 2.29 feet below ground surface (bgs).

3.2 Storm Drain

A storm drain runs along the sidewalk on the southeast side of Lakeshore Avenue. There are two storm drain inlets located next to the site. One on the corner of Lakeshore Avenue and Lake Park Avenue and a second inlet on the east side of the first driveway onto the site from Lakeshore Avenue. The storm drain is approximately 2.5 feet bgs at the inlet next to the driveway and the bottom of the storm drain main is approximately 4 feet bgs. The two storm drain inlets next to the site did not have markings indicated that the storm drain emptied into nearby Lake Merritt, however, several other storm drain inlets in the vicinity of the site did state that the storm drains emptied to the lake. Also, according to the City of Oakland, Lake Merritt receives water from 60 storm drain outfalls and over 4,650 acres drain into Lake Merritt. Antea Group is currently attempting to confirm with the City of Oakland that the storm drains located near the site do empty into the lake. A site plan with known utility locations and depths is presented on **Figure 6**.

3.3 Sensitive Receptors

In October 2013, Antea Group submitted a Sensitive Receptor Survey to the ACHCSA. In the report it was stated that no water supply, domestic, municipal, irrigation, or industrial wells were located within a half mile radius of the site based on data from the Alameda County Public Works Agency (ACPWA) or the Department of Water Resources (DWR). ACHCSA requested that Antea Group look for any wells within a one mile radius of the site. Review of the data from ACPWA and DWR identified three wells within a one mile radius of the site. Two of the wells are listed as domestic use wells and the third well

is listed as an irrigation well. The closest well is the irrigation well at 0.71 miles northeast of the site. The well identification number is 01-701. The domestic well identification numbers are 32531 and 378677 and are located approximately 0.92 mile south and 0.99 miles east-northeast of the site, respectively. The location of the wells in relation to the site is presented on **Figure 7**.

4.0 CONCLUSIONS

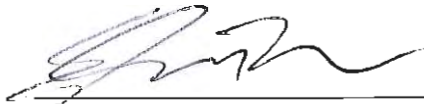
Antea Group has made the following conclusions in this Focused Site Conceptual Model- Draft:

- Free product has historically been observed in site monitoring wells, however measurable free product has not been observed since March 1998. The presence of measurable free product does not appear to correlate with the depth of water.
- TPHg, MTBE, and TBA concentrations in monitoring wells U-1, U-2, U-5, and U-6 show declining trends since 2005 and concentrations reported in the monitoring wells do not appear to be correlated to depth to water. Based on the concentrations reported in monitoring wells U-3, U-5, and U-6, it does not appear that plume is migrating off-site. In addition, based on the reported TPHg, MTBE, and TBA concentrations, the size of the plume appears to be shrinking.
- Sensitive receptors including two domestic wells and an irrigation well have been identified within one mile of the site, however, given their locations (up-gradient and cross-gradient), it is unlikely that they would be effected by impacted groundwater beneath the site.

5.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:

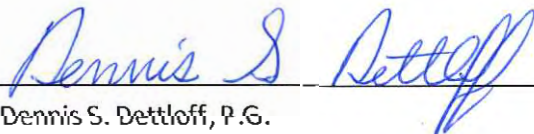


Edward T. Weyrens, G.I.T.
Project Professional

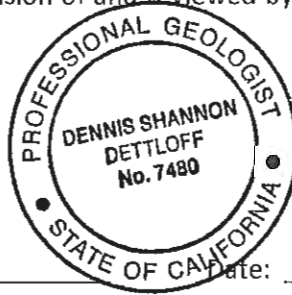
Date: 2/28/14

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



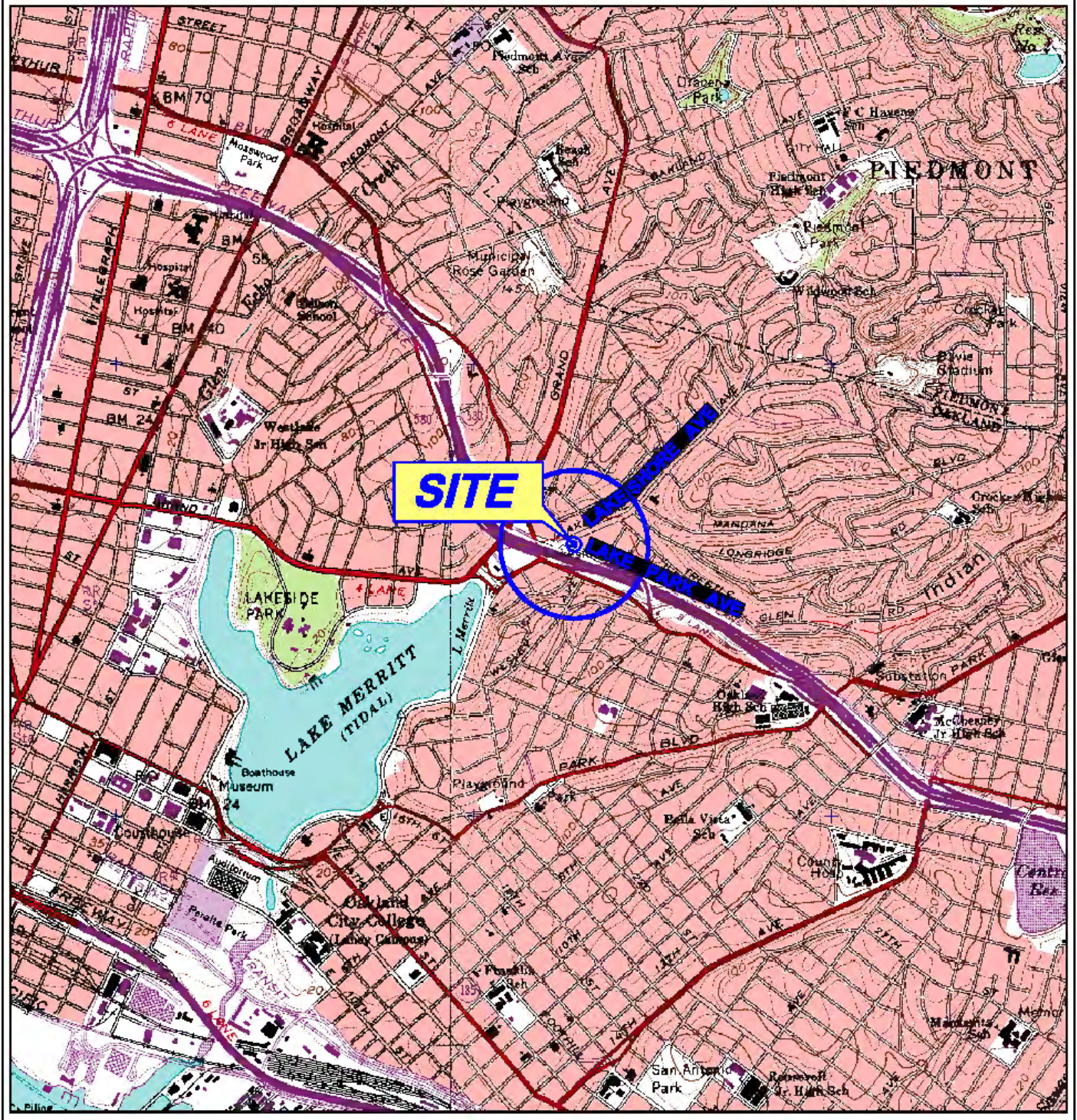
Dennis S. Dettloff, P.G.
Senior Project Manager
California Registered Professional Geologist No. 7480



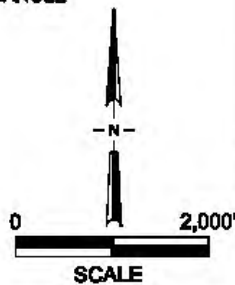
Date: 2/28/14

Figures

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GENERAL NOTES:
 BASE MAP FROM 3-D TOPO QUADS
 OAKLAND WEST & OAKLAND EAST, CA. QUADRANGLE
 7.5 MINUTE TOPOGRAPHIC MAP

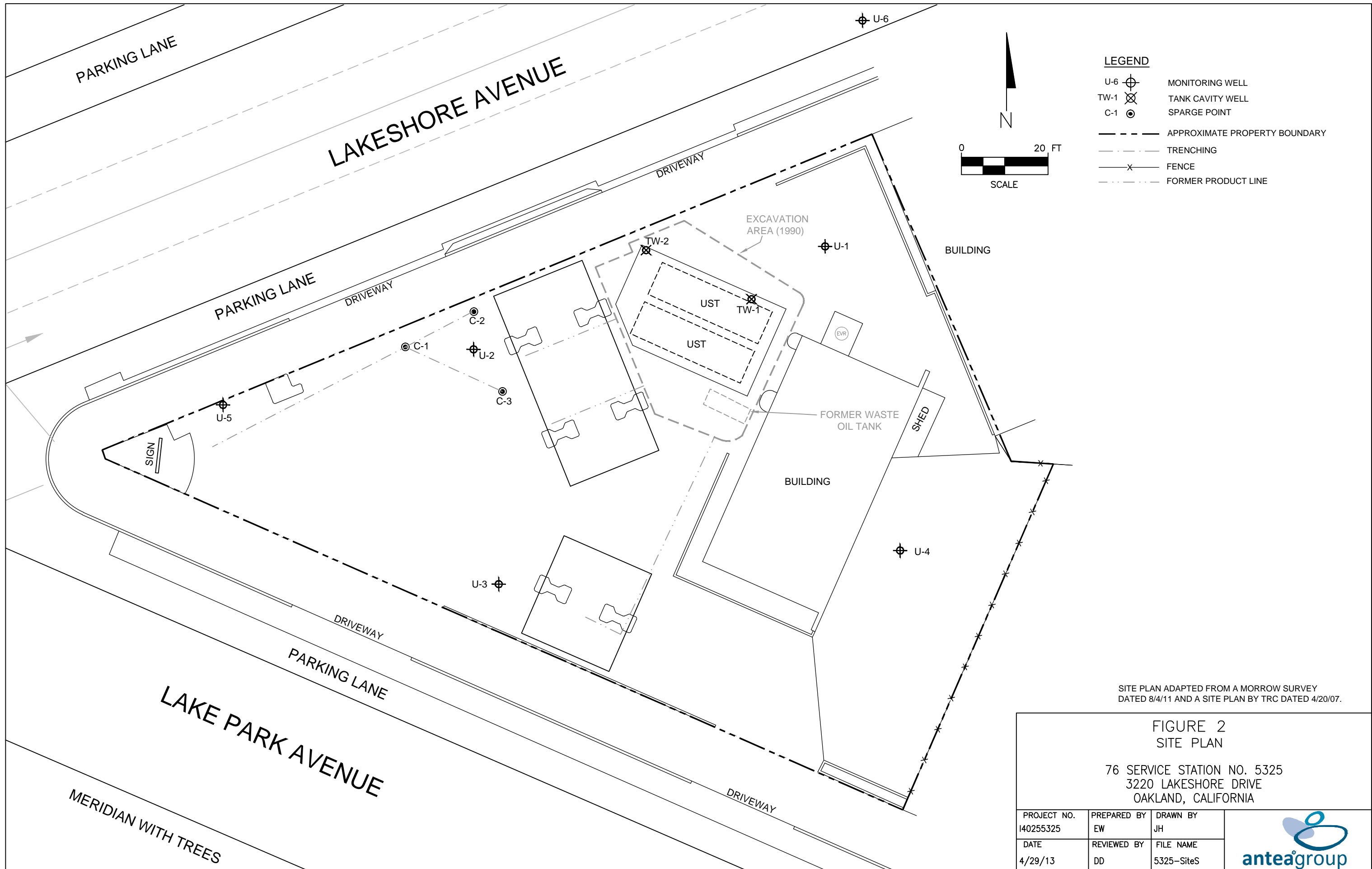


**FIGURE 1
 SITE LOCATION MAP**

76 SERVICE STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	DRAWN BY JH
FILE NO. 5325-SLM	PREPARED BY EW
DATE 28 JAN 11	REV. 2
	REVIEWED BY





LEGEND

- U-6 MONITORING WELL
- TW-1 TANK CAVITY WELL
- C-1 SPARGE POINT
- APPROXIMATE PROPERTY BOUNDARY
- TRENCHING
- FENCE
- FORMER PRODUCT LINE

SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

**FIGURE 2
SITE PLAN**


76 SERVICE STATION NO. 5325
3220 LAKESHORE DRIVE
OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY EW	DRAWN BY JH
DATE 4/29/13	REVIEWED BY DD	FILE NAME 5325-SiteS







LEGEND

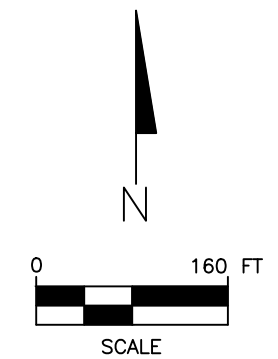
U-6  MONITORING WELL

(420) DISSOLVED PHASE TPHg CONCENTRATION (µg/L)

 50  DISSOLVED PHASE TPHg ISOCONCENTRATION CONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMITS



SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.


FIGURE 3
 DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
 SEPTEMBER 13, 2013
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. I40255325	PREPARED BY JF	DRAWN BY JH
DATE 2/28/14	REVIEWED BY DD	FILE NAME 5325-Aerial







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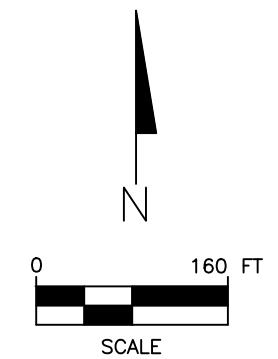
U-6  MONITORING WELL

(3.3) DISSOLVED PHASE MTBE CONCENTRATION (µg/L)

 0.50  DISSOLVED PHASE MTBE ISOCONCENTRATION CONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

MTBE = METHYL TERTIARY BUTYL ETHER
 µg/L = MICROGRAMS PER LITER
 <0.50 = LESS THAN LABORATORY INDICATED REPORTING LIMITS



SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 4
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 SEPTEMBER 13, 2013
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. I40255325	PREPARED BY JF	DRAWN BY JH
DATE 2/28/14	REVIEWED BY DD	FILE NAME 5325-Aerial





LEGEND

U-6  MONITORING WELL

(37) DISSOLVED PHASE TBA CONCENTRATION (µg/L)

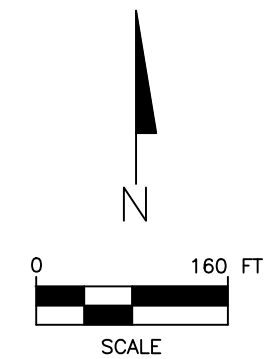
— 50 — — — DISSOLVED PHASE TBA ISOCONCENTRATION CONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

TBE = TERTIARY BUTYL ALCOHOL

µg/L = MICROGRAMS PER LITER

<5.0 = LESS THAN LABORATORY INDICATED REPORTING LIMITS

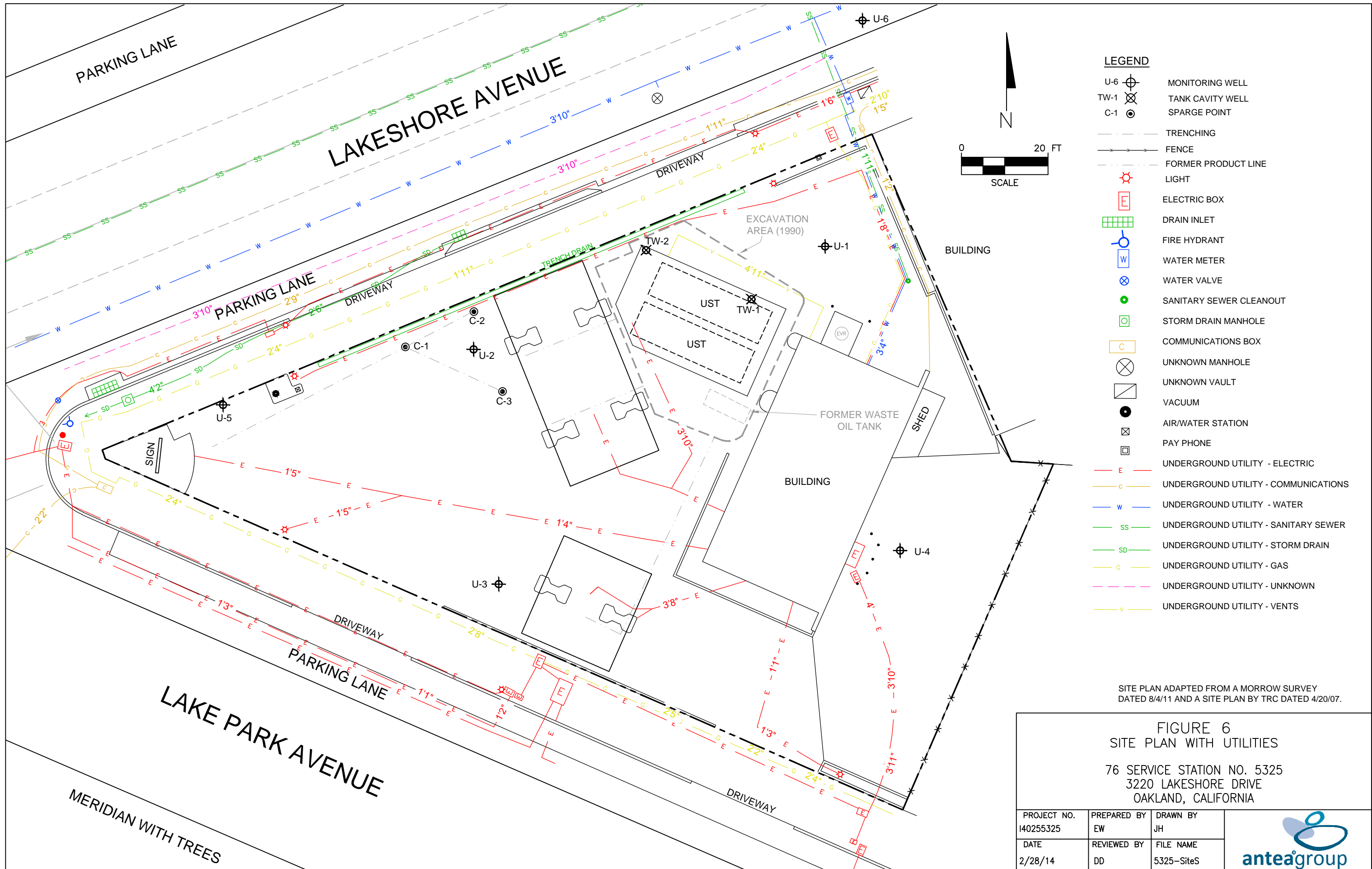


SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 5
 DISSOLVED PHASE TBA ISOCONCENTRATION MAP
 SEPTEMBER 13, 2013
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 2/28/14	REVIEWED BY DD	FILE NAME 5325-Aerial







LAKE
MERRITT

1 MILE RADIUS

Well 01-701

Well 378677

Site 5325

Well 32531

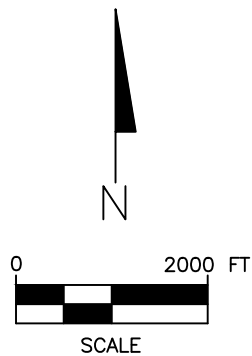


FIGURE 7
SENSITIVE RECEPTOR MAP

76 SERVICE STATION NO. 5325
3220 LAKESHORE DRIVE
OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY EW	DRAWN BY JH
DATE 2/26/14	REVIEWED BY DD	FILE NAME 5325-SRS



Focused Site Conceptual Model - Draft

76 Service Station No. 5325

Antea Group Project No. I40255325



Appendix A

Alameda County Health Care Services Agency Email, dated January 13, 2014

Dennis Dettloff

From: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>
Sent: Monday, January 13, 2014 4:39 PM
To: Dennis Dettloff
Cc: Roe, Dilan, Env. Health
Subject: Fuel Leak Case RO229, UNOCAL #5325, 3220 LAKESHORE AVE., OAKLAND , CA

Dear Mr. Dettloff,

Thank you and Mr. Ed Weyrens of Antea™ Group (Antea) for participating in the conference call this morning regarding fuel leak case for UNOCAL #5325, 3220 Lakeshore Drive, Oakland, Alameda County Environmental Health (ACEH) case number RO0000229. ACEH staff has reviewed the case files including the *Case Closure Request* (RFC), dated November 12, 2013, prepared by Antea for the subject Site. ACEH denied the RFC in a letter dated December 24, 2013 based on data gaps perceived by ACEH which questioned the completeness of the Site Conceptual Model (SCM) as it relates to the groundwater contaminant plume delineation and requested a meeting to discuss the Site with you.

Items which ACEH discussed during today's teleconference and wished to have addressed include:

Plume stability:

- Relationship of depth-to-water (DTW), direct and indirect free product observations, and concentrations of total petroleum hydrocarbons as gasoline (TPHg), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) for groundwater monitoring wells U-1, U-2, U-5, and U-6;
- Review of the historic groundwater flow directions, radial outward flow, and the offsite migration of the contaminant plumes for TPHg, MTBE, and TBA;
- Concentrations plots for TPHg, MTBE, and TBA since 2005 using monitoring wells U-1, U-2, U-5, and U-6. As the data trend graphs for TPHg as plotted from Geotracker are misleading based in part on the lack of data in the time interval between 2010 and 2012, ACEH requests you do not use Geotracker as the source of the data trend plots.

Preferential Pathways:

- Identification of depth to- and location of- sanitary sewer and storm drains due to the shallow DTW at the Site. Please review the ACEH case file, including information contained in MISC_R_1997-02-28. PDF copies of case files can be reviewed at <http://www.acgov.org/aceh/lop/ust.htm>;
- Location(s) of storm drain discharge outlet(s).

Reporting:

- Preparation of a draft focused SCM addressing the above mentioned data gaps;
- Preparation of a figure on an aerial overlay showing locations of beneficial use wells within one mile of the Site, the location of Lake Merritt, and depicting the estimated plume boundaries for TPHg, MTBE, and TBA.

As discussed in our conference call, please provide ACEH (Attention: Keith Nowell) the information identified above in a draft document via email by February 14, 2014. Following ACEH's review, a follow up meeting will be scheduled to address how best to move the project toward closure in an expeditious manner. Please provide ACEH with contact information for Mr. Ed Weyrens if he continues to be involved with this project.

Thank you for your cooperation. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at keith.nowell@acgov.org.

Regards,
Keith Nowell

Keith Nowell PG, CHG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda , CA 94502-6540
phone: 510 / 567 - 6764
fax: 510 / 337 - 9335
email: keith.nowell@acgov.org

PDF copies of case files can be reviewed/downloaded at:

<http://www.acgov.org/aceh/top/ust.htm>

Appendix B

Historical Groundwater Gauging and Analytical Data

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3200 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPH _g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
U-1	8/10/1990	NSVD	NG	NG	NG	690	38	75	8.6	130	--	--	--	--	--	--	--	--	--	
	1/7/1991	NSVD	NG	NG	NG	250	22	16	4.2	17	--	--	--	--	--	--	--	--	--	
	4/1/1991	NSVD	NG	NG	NG	160	13	8.6	1.0	15	--	--	--	--	--	--	--	--	--	
	7/3/1991	NSVD	NG	NG	NG	140	21	4.3	0.36	17	--	--	--	--	--	--	--	--	--	
	10/9/1991	NSVD	NG	NG	NG	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/12/1992	NSVD	NG	NG	NG	250	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	5/5/1992	NSVD	NG	NG	NG	230	1.2	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/11/1992	NSVD	NG	NG	NG	1,000	80	1.4	6.7	41	--	--	--	--	--	--	--	--	--	
	8/20/1992	NSVD	NG	NG	NG	400	1.0	ND	ND	0.6	--	--	--	--	--	--	--	--	--	
	2/22/1993	NSVD	NG	NG	NG	34,000	1,400	5,500	910	7,300	--	--	--	--	--	--	--	--	--	
	5/7/1993	NSVD	NG	NG	NG	8,700	600	240	650	3,300	--	--	--	--	--	--	--	--	--	
	8/8/1993	NSVD	NG	NG	NG	4,900	79	ND	832	270	--	--	--	--	--	--	--	--	--	
	11/16/1993	5.32	8.60	NP	-3.28	690	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/16/1994	5.32	8.53	NP	-3.21	6,800	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/22/1994	8.46	8.39	NP	0.07	200	ND	ND	5.9	21	--	--	--	--	--	--	--	--	--	
	9/22/1994	8.46	8.65	NP	-0.19	6,100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/24/1994	8.46	8.03	NP	0.43	50,000	2,500	9,700	2,400	17,000	--	--	--	--	--	--	--	--	--	
	3/25/1995	8.46	7.71	0.36	1.02	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	6/21/1995	8.46	9.30	0.20	-0.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	9/19/1995	8.46	9.28	0.39	-0.53	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	12/19/1995	8.46	8.97	0.02	-0.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	3/18/1996	8.46	8.25	NP	0.21	27,000	ND	2,300	1,400	11,000	4,900	--	--	--	--	--	--	--	--	
	6/27/1996	8.46	7.92	NP	0.54	120,000	540	4,300	2,600	26,000	ND	--	--	--	--	--	--	--	--	
	9/26/1996	8.46	9.10	0.02	-0.63	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	12/9/1996	8.46	6.88	0.03	-1.60	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	3/14/1997	8.46	9.02	0.55	-0.15	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	6/30/1997	8.46	8.40	0.01	0.07	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	9/19/1997	8.46	8.56	0.02	-0.09	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	12/12/1997	8.46	8.57	0.00	-0.11	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	3/3/1998	8.46	8.22	0.03	0.26	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	6/15/1998	8.46	8.36	NP	0.10	52,000	ND	900	1,800	13,000	ND	--	--	--	--	--	--	--	--	
	9/30/1998	8.46	8.93	NP	-0.47	1,000,000	ND	2,600	13,000	83,000	4,800	--	--	--	--	--	--	--	--	
	12/28/1998	8.46	8.56	NP	-0.10	1,100,000	ND	1,600	8,600	71,000	5,700	--	--	--	--	--	--	--	--	
	3/22/1999	8.46	8.18	NP	0.28	130,000	470	1,100	2,000	28,000	5,700	--	--	--	--	--	--	--	--	
	6/9/1999	8.46	9.36	NP	-0.90	40,000	230	640	590	13,000	3,500	2,100	--	--	--	--	--	--	--	
	9/8/1999	8.46	9.52	NP	-1.06	55,000	217	202	745	14,300	6,890	6,690	--	--	--	--	--	--	--	
	12/7/1999	8.46	9.67	NP	-1.21	41,200	89.3	ND	385	6,930	15,800	14,700	--	--	--	--	--	--	--	
	3/13/2000	8.46	8.43	NP	0.03	48,000	490	610	2,400	10,000	22,000	23,000	--	--	--	--	--	--	--	
	6/21/2000	8.46	9.44	NP	-0.98	37,000	200	ND	1,200	7,200	15,000	20,000	--	--	--	--	--	--	--	
	9/27/2000	8.46	9.28	NP	-0.82	15,000	92	ND	540	2,800	74,000	83,000	ND	ND	ND	ND	ND	ND	ND	
	12/12/2000	8.46	9.36	NP	-0.90	50,000	ND	ND	250	1,900	12,000	15,000	--	--	--	--	--	--	--	
	3/7/2001	8.46	8.44	NP	0.02	6,220	29.8	10.4	96.3	638	11,200	11,800	ND	ND	ND	ND	ND	ND	ND	
	6/6/2001	8.46	9.28	NP	-0.82	5,200	17	ND	69	420	6,500	8,700	ND	ND	ND	ND	ND	ND	ND	
	9/24/2001	8.46	9.39	NP	-0.93	4,300	36	<25	65	590	4,400	4,400	<1000	<1000	<1000	<20000	<400000	<1000	<1000	
	12/10/2001	8.46	9.17	NP	-0.71	11,000	220	<100	380	1,500	5,100	5,100	<100	<100	<100	<4000	<8000	<100	<100	
	3/11/2002	8.46	9.43	NP	-0.97	5,500	28	<20	360	690	6,400	6,300	<100	<100	<100	<5000	<25000	<100	<100	
	6/4/2002	8.46	8.31	NP	0.15	4,600	31	<10	240	180	6,500	--	--	--	--	--	--	--	--	
	9/3/2002	8.46	9.35	NP	-0.89	2,300	<12	<12	<12	68	3,500	4,700	<200	<200	<200	<10000	<50000	<200	<200	
	12/3/2002	8.46	8.18	NP	0.28	<5000	<50	<50	<50	<100	--	4,700	<200	<200	<200	<10000	<50000	<200	<200	
	3/4/2003	8.46	8.28	NP	0.18	8,900	26	<25	400	130	--	5,500	<100	<100	<100	<5000	<25000	<100	<100	
	6/18/2003	8.46	7.57	NP	0.89	8,300	<25	<25	<25	<50	--	10,000	<100	<100	<100	<5000	<25000	<100	<100	
	9/24/2003	8.46	8.18	NP	0.28	<10000	<100	<100	<100	<200	--	11,000	<400	<400	<400	<20000	<100000	<400	<400	
	12/2/2003	8.46	8.89	NP	-0.43	<10000	<100	<100	<100	<200	--	11,000	--	--	--	--	<100000	--	--	
	3/30/2004	8.46	8.38	NP	0.08	12,000	<100	<100	190	<200	--	13,000	<200	<100	<100	3,100	<10000	<100	<100	
	6/7/2004	8.46	10.35	NP	-1.89	13,000	<100	<100	<100	<200	--	12,000	<200	<100	<100	3,300	<10000	<100	<100	
	9/9/2004	8.46	dry	dry	dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
	12/20/2004	8.46	9.00	NP	-0.54	<50	<0.50	<0.50	<0.50	<1.0	--	8.2	<1.0	<0.50	<0.50	11	<50	<0.50	<0.50	
	3/28/2005	8.46	8.10	NP	0.36	37,000	<10	<10	1,500	5,300	--	460	--	--	--	--	<1000	--	--	
	6/14/2005	8.46	8.90	NP	-0.44	3,900	<0.50	<0.50	48	68	--	60	<10	<10	<10	4,400	<1000	<10	<10	
	9/28/2005	8.46	11.35	NP	-2.89	560	<0.50	0.60	3.0	26	--	18	<10	<10	<10	5,500	<250	<10	<10	
	12/29/2005	8.46	8.57	NP	-0.11	510	0.77	<0.50	27	63	--	62	<0.50	<0.50	<0.50	3,900	<250	<0.50	<0.50	

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3200 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
U-1	3/27/2006	8.46	7.19	NP	1.27	29,000	<25	<25	1,500	4,900	--	300	--	--	--	--	<12000	--	--
	6/12/2006	8.46	7.80	NP	0.66	3,200	<0.50	<0.50	42	15	--	56	--	--	--	--	<250	--	--
	9/21/2006	8.46	8.03	NP	0.43	2,600	<12	<12	<12	<12	--	30	--	--	--	--	<6200	--	--
	12/21/2006	8.46	8.31	NP	0.15	2,000	<0.50	<0.50	13	2.2	--	53	--	--	--	--	<250	--	--
	3/28/2007	8.46	6.17	NP	2.29	12,000	<2.5	<2.5	690	1,900	--	110	<2.5	<2.5	<2.5	1,600	<1200	<2.5	<2.5
	6/27/2007	8.46	5.38	NP	3.08	13,000	2.8	<2.5	960	1,300	--	79	<2.5	<2.5	<2.5	1,500	<1200	<2.5	<2.5
	9/26/2007	8.46	5.32	NP	3.14	6,900	2.6	<2.5	310	680	--	44	--	--	--	--	<1200	--	--
	12/27/2007	8.46	8.11	NP	0.35	5,900	<2.5	<2.5	290	130	--	42	--	--	--	--	<1200	--	--
	3/26/2008	8.46	7.84	NP	0.62	3,500	<2.5	<2.5	100	18	--	30	--	--	--	--	<1200	--	--
	6/18/2008	8.46	7.03	NP	1.43	8,400	<5.0	<5.0	230	86	--	26	--	--	--	--	<2500	--	--
	9/24/2008	8.46	6.90	NP	1.56	6,000	3.3	<2.5	170	86	--	78	--	--	--	--	<1200	--	--
	12/22/2008	8.46	7.69	NP	0.77	6,400	0.64	<0.50	95	7.0	--	12	--	--	--	--	<250	--	--
	3/26/2009	8.46	7.55	NP	0.91	5,700	<2.5	<2.5	72	6.5	--	10	--	--	--	--	<1200	--	--
	6/23/2009	8.46	6.80	NP	1.66	4,000	<2.5	<2.5	41	<5.0	--	10	--	--	--	--	<1200	--	--
	12/3/2009	8.46	7.30	NP	1.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/4/2009	--	--	--	--	8,330	0.56	<0.50	13.5	1.6	--	10.9	--	--	--	729	<250	--	--
	6/28/2010	8.46	6.71	NP	1.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	--	--	--	7,090	<0.50	<0.50	2.1	2.2	--	5.1	<0.50	<0.50	<0.50	1,110	<250	<1.0	<1.0
	12/20/2010	8.46	6.76	NP	1.70	6,280	<0.50	<0.50	29.9	1.8	--	7.0	<0.50	<0.50	<0.50	391	<250	<1.0	<1.0
	6/3/2011	8.46	6.95	NP	1.51	6,490	<0.50	<0.50	1.2	<1.5	--	6.1	<0.50	<0.50	<0.50	880	<250	<1.0	<1.0
	12/5/2011	14.24	7.25	NP	6.99	6,190	<0.50	<0.50	1.1	<1.5	--	5.8	<0.50	<0.50	<0.50	872	<250	<1.0	<1.0
	6/6/2012	14.24	8.22	NP	6.02	2,240	<0.50	<0.50	0.66	2.6	--	4.6	<0.50	<0.50	<0.50	2,100	<250	<1.0	<1.0
	12/19/2012	14.24	8.85	NP	5.39	4,000	0.95	<0.50	53	11	--	11	<0.50	<0.50	<0.50	760	<5.0	<0.50	<0.50
	3/13/2013	14.24	9.15	NP	5.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2013	14.24	8.59	NP	5.65	420	<0.50	<0.50	1.2	14	--	3.3	<0.50	<0.50	<0.50	1,000	<5.0	<0.50	<0.50
	U-2	8/10/1990	NSVD	NG	NG	NG	780	27	46	15	130	--	--	--	--	--	--	--	--
		1/7/1991	NSVD	NG	NG	NG	1,900	67	5.8	58	69	--	--	--	--	--	--	--	--
		4/1/1991	NSVD	NG	NG	NG	1,700	250	89	34	190	--	--	--	--	--	--	--	--
7/3/1991		NSVD	NG	NG	NG	2,100	150	25	3.1	290	--	--	--	--	--	--	--	--	
10/9/1991		NSVD	NG	NG	NG	230	7.1	ND	ND	11	--	--	--	--	--	--	--	--	
2/12/1992		NSVD	NG	NG	NG	410	1.9	ND	0.36	0.4	--	--	--	--	--	--	--	--	
5/5/1992		NSVD	NG	NG	NG	1,600	120	52	6.2	290	--	--	--	--	--	--	--	--	
6/11/1992		NSVD	NG	NG	NG	620	17	2.1	ND	37	--	--	--	--	--	--	--	--	
8/20/1992		NSVD	NG	NG	NG	700	28	6.5	1.3	4.6	--	--	--	--	--	--	--	--	
2/22/1993		NSVD	NG	NG	NG	3,400	2,400	2,100	1,200	5,800	--	--	--	--	--	--	--	--	
5/7/1993		NSVD	NG	NG	NG	17,000	1,800	660	1,700	4,000	--	--	--	--	--	--	--	--	
8/8/1993		NSVD	NG	NG	NG	5,600	420	ND	410	670	--	--	--	--	--	--	--	--	
11/16/1993		4.53	8.17	NP	-3.64	510	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
2/16/1994		4.53	7.73	NP	-3.20	980	49	13	2.7	40	--	--	--	--	--	--	--	--	
6/22/1994		7.62	7.59	NP	0.03	31,000	2,200	62	1,500	3,500	--	--	--	--	--	--	--	--	
9/22/1994		7.62	7.92	NP	-0.30	8,500	29	ND	ND	ND	--	--	--	--	--	--	--	--	
12/24/1994		7.62	7.26	NP	0.36	32,000	1,500	890	1,300	5,000	--	--	--	--	--	--	--	--	
3/25/1995		7.62	7.01	NP	0.61	170,000	1,900	21,000	4,800	33,000	--	--	--	--	--	--	--	--	
6/21/1995		7.62	6.98	NP	0.64	16,000	2,100	ND	1,800	1,700	--	--	--	--	--	--	--	--	
9/19/1995		7.62	7.69	NP	-0.07	3,000	610	ND	78	240	--	--	--	--	--	--	--	--	
12/19/1995		7.62	7.30	NP	0.32	1,600	140	55	52	270	--	--	--	--	--	--	--	--	
3/18/1996		7.62	6.44	NP	1.18	12,000	2,200	ND	1,200	2,200	22,000	--	--	--	--	--	--	--	
6/27/1996		7.62	7.40	NP	0.22	28,000	3,400	ND	2,800	3,100	3,000	--	--	--	--	--	--	--	
9/26/1996		7.62	7.90	NP	-0.28	5,900	750	ND	ND	18,000	--	--	--	--	--	--	--	--	
12/9/1996		7.62	6.76	NP	0.86	13,000	5,100	290	980	370	2,700	--	--	--	--	--	--	--	
3/14/1997		7.62	7.11	0.02	0.53	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
6/30/1997		7.62	6.19	NP	1.43	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
9/19/1997		7.62	7.30	NP	0.32	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
12/12/1997		7.62	6.75	NP	0.87	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
3/3/1998		7.62	6.36	NP	1.26	80,000	3,000	1,100	820	16,000	16,000	--	--	--	--	--	--	--	
6/15/1998	7.62	6.51	NP	1.11	48,000	1,800	330	470	7,900	20,000	--	--	--	--	--	--	--		
9/30/1998	7.62	7.17	NP	0.45	60,000	1,300	ND	500	9,700	19,000	--	--	--	--	--	--	--		
12/28/1998	7.62	7.05	NP	0.57	63,000	590	160	320	5,600	16,000	--	--	--	--	--	--	--		
3/22/1999	7.62	6.82	NP	0.80	28,000	1,100	ND	360	2,900	25,000	--	--	--	--	--	--	--		
6/9/1999	7.62	7.51	NP	0.11	21,000	110	190	310	2,600	7,900	7,800	--	--	--	--	--	--		
9/8/1999	7.62	8.15	NP	-0.53	23,300	477	138	286	4,110	16,400	15,300	--	--	--	--	--	--		

TABLE 2
 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 SERVICE STATION NO. 5325
 3200 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPH _g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
	8/8/1993	NSVD	NG	NG	NG	210	5.0	9.7	0.7	4.1	--	--	--	--	--	--	--	--	--	
	11/16/1993	7.86	11.81	NP	-3.95	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/16/1994	7.86	11.61	NP	-3.75	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/22/1994	10.98	11.64	NP	-0.66	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/22/1994	10.98	11.76	NP	-0.78	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/24/1994	10.98	11.27	NP	-0.29	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/25/1995	10.98	10.96	NP	0.02	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/21/1995	10.98	11.36	NP	-0.38	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/19/1995	10.98	11.55	NP	-0.57	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/19/1995	10.98	11.44	NP	-0.46	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/18/1996	10.98	11.10	NP	-0.12	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/27/1996	10.98	11.15	NP	-0.17	440	49	50	51	140	50	--	--	--	--	--	--	--	--	
	9/26/1996	10.98	11.55	NP	-0.57	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/9/1996	10.98	10.11	NP	0.87	ND	ND	ND	ND	ND	29	--	--	--	--	--	--	--	--	
	3/14/1997	10.98	10.86	NP	0.12	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/30/1997	10.98	11.07	NP	-0.09	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/19/1997	10.98	11.05	NP	-0.07	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/12/1997	10.98	10.57	NP	0.41	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/3/1998	10.98	9.84	NP	1.14	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/15/1998	10.98	10.56	NP	0.42	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/30/1998	10.98	11.11	NP	-0.13	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/28/1998	10.98	10.96	NP	0.02	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/22/1999	10.98	9.46	NP	1.52	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/9/1999	10.98	11.01	NP	-0.03	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/8/1999	10.98	11.31	NP	-0.33	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/7/1999	10.98	11.26	NP	-0.28	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/13/2000	10.98	8.27	NP	2.71	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/21/2000	10.98	11.11	NP	-0.13	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/27/2000	10.98	11.06	NP	-0.08	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/12/2000	10.98	10.93	NP	0.05	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/7/2001	10.98	8.31	NP	2.67	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/6/2001	10.98	10.93	NP	0.05	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/24/2001	10.98	11.02	NP	-0.04	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
	12/10/2001	10.98	8.15	NP	2.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
	3/11/2002	10.98	7.82	NP	3.16	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--	
	6/4/2002	10.98	10.57	NP	0.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
	9/3/2002	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
	12/3/2002	10.98	10.65	NP	0.33	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	
	3/4/2003	10.98	10.76	NP	0.22	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	
	6/18/2003	10.98	10.26	NP	0.72	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	
	9/24/2003	10.98	10.88	NP	0.10	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	<500	--	--	--	
	12/2/2003	10.98	11.00	NP	-0.02	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	<500	--	--	--	
	3/30/2004	10.98	10.64	NP	0.34	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--	--	
	6/7/2004	10.98	11.00	NP	-0.02	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--	--	
	9/9/2004	10.98	11.21	NP	-0.23	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--	--	
	12/20/2004	10.98	10.78	NP	0.20	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--	--	
	3/28/2005	10.98	9.80	NP	1.18	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--	--	
	6/14/2005	10.98	10.75	NP	0.23	<50	<0.50	<0.50	<0.50	1.2	--	<0.50	--	--	--	<50	--	--	--	
	9/28/2005	10.98	11.15	NP	-0.17	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--	--	
	12/29/2005	10.98	10.40	NP	0.58	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--	--	
	3/27/2006	10.98	10.15	NP	0.83	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--	--	
	6/12/2006	10.98	9.93	NP	1.05	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--	--	
	9/21/2006	10.98	11.01	NP	-0.03	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--	--	
	12/21/2006	10.98	10.92	NP	0.06	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--	--	
	3/28/2007	10.98	10.84	NP	0.14	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--	--	
	6/27/2007	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--	--	
	9/26/2007	10.98	11.01	NP	-0.03	770	<0.50	<0.50	<0.50	<0.50	--	18	--	--	--	<250	--	--	--	
	12/27/2007	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<1.0	--	0.63	--	--	--	<250	--	--	--	
	3/26/2008	10.98	10.84	NP	0.14	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--	--	
	6/18/2008	10.98	10.89	NP	0.09	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--	--	
	9/24/2008	10.98	10.89	NP	0.09	<50	<0.50	<0.50	<0.50	<1.0	--	0.87	--	--	--	<250	--	--	--	

U-3

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3200 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPH _g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
U-3	12/22/2008	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/26/2009	10.98	10.69	NP	0.29	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/23/2009	10.98	10.40	NP	0.58	<50	<0.50	<0.50	<0.50	<1.0	--	0.65	--	--	--	--	<250	--	--	
	12/3/2009	10.98	11.10	NP	-0.12	<50	<0.50	<0.50	<0.50	<1.5	--	1.2	--	--	--	<5.0	<250	--	--	
	6/28/2010	10.98	10.67	NP	0.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	10.98	10.74	NP	0.24	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	12/20/2010	10.98	10.37	NP	0.61	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.91	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	6/3/2011	10.98	10.54	NP	0.44	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.73	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	12/5/2011	16.37	10.59	NP	5.78	<50.0	<0.50	<0.50	<0.50	<1.5	--	1.4	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	6/6/2012	16.37	10.47	NP	5.90	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.78	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	12/19/2012	16.37	10.50	NP	5.87	<50	<0.50	<0.50	<0.50	<0.50	--	0.55	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
	3/13/2013	16.37	10.60	NP	5.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2013	16.37	10.47	NP	5.90	<50	<0.50	<0.50	<0.50	<0.50	--	0.58	<0.50	<0.50	<0.50	11	<5.0	<0.50	<0.50	
	U-4	6/22/1994	11.15	10.15	NP	1.00	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
		9/22/1994	11.15	10.78	NP	0.37	ND	0.78	1.3	ND	1.4	--	--	--	--	--	--	--	--	--
		12/24/1994	11.15	9.81	NP	1.34	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
		3/25/1995	11.15	9.51	NP	1.64	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
6/21/1995		11.15	9.53	NP	1.62	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
9/19/1995		11.15	10.17	NP	0.98	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
12/19/1995		11.15	9.97	NP	1.18	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
3/18/1996		11.15	9.65	NP	1.50	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
6/27/1996		11.15	9.73	NP	1.42	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
9/26/1996		11.15	10.14	NP	1.01	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
12/9/1996		11.15	8.67	NP	2.48	ND	ND	ND	ND	ND	33	--	--	--	--	--	--	--	--	
3/14/1997		11.15	9.35	NP	1.80	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
6/30/1997		11.15	9.89	NP	1.26	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
9/19/1997		11.15	9.96	NP	1.19	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
12/12/1997		11.15	8.56	NP	2.59	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
3/3/1998		11.15	7.84	NP	3.31	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
6/15/1998		11.15	9.07	NP	2.08	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
9/30/1998		11.15	9.75	NP	1.40	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
12/28/1998		11.15	9.59	NP	1.56	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
3/22/1999		11.15	8.34	NP	2.81	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
6/9/1999		11.15	9.39	NP	1.76	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
9/8/1999		11.15	9.89	NP	1.26	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
12/7/1999		11.15	10.05	NP	1.10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
3/13/2000		11.15	7.23	NP	3.92	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
6/21/2000		11.15	9.47	NP	1.68	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
9/27/2000		11.15	9.42	NP	1.73	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
12/12/2000		11.15	9.50	NP	1.65	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
3/7/2001		11.15	6.88	NP	4.27	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
6/6/2001		11.15	9.18	NP	1.97	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
9/24/2001		11.15	9.21	NP	1.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
12/10/2001		11.15	7.32	NP	3.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
3/11/2002		11.15	6.92	NP	4.23	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--	
6/4/2002		11.15	7.57	NP	3.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
9/3/2002		11.15	9.17	NP	1.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	
12/3/2002		11.15	9.19	NP	1.96	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	
3/4/2003		11.15	9.31	NP	1.84	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	
6/18/2003		11.15	7.65	NP	3.50	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	
9/24/2003		11.15	8.26	NP	2.89	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--	
12/2/2003		11.15	9.15	NP	2.00	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--	
3/30/2004		11.15	7.46	NP	3.69	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	
6/7/2004		11.15	8.93	NP	2.22	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	
9/9/2004		11.15	9.82	NP	1.33	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	
12/20/2004		11.15	8.27	NP	2.88	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	
3/28/2005		11.15	6.34	NP	4.81	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	
6/14/2005		11.15	8.10	NP	3.05	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	
9/28/2005		11.15	9.59	NP	1.56	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
12/29/2005		11.15	7.13	NP	4.02	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
3/27/2006	11.15	6.26	NP	4.89	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--		

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3200 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPH _g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
U-4	6/12/2006	11.15	8.44	NP	2.71	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/21/2006	11.15	9.63	NP	1.52	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/21/2006	11.15	8.50	NP	2.65	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	3/28/2007	11.15	8.00	NP	3.15	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	6/27/2007	11.15	8.77	NP	2.38	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	9/26/2007	11.15	9.07	NP	2.08	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/27/2007	11.15	8.63	NP	2.52	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/26/2008	11.15	7.86	NP	3.29	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/18/2008	11.15	8.82	NP	2.33	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/24/2008	11.15	9.50	NP	1.65	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	12/22/2008	11.15	8.55	NP	2.60	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/26/2009	11.15	7.21	NP	3.94	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/23/2009	11.15	8.40	NP	2.75	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	12/3/2009	11.15	9.10	NP	2.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/4/2009	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	6/28/2010	11.15	8.30	NP	2.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/30/2010	--	--	--	--	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	12/20/2010	11.15	7.60	NP	3.55	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	6/3/2011	11.15	8.02	NP	3.13	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	12/5/2011	16.55	8.98	NP	7.57	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	6/6/2012	16.55	7.70	NP	8.85	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	12/19/2012	16.55	8.63	NP	7.92	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	3/13/2013	16.55	8.15	NP	8.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/13/2013	16.55	9.47	NP	7.08	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	6/22/1994	6.98	6.82	NP	0.16	210	7.1	13	4.5	26	--	--	--	--	--	--	--	--	--	
	9/22/1994	6.98	6.90	NP	0.08	170	8.4	10	8.5	18	--	--	--	--	--	--	--	--	--	
	12/24/1994	6.98	6.42	NP	0.56	8,700	560	70	670	430	--	--	--	--	--	--	--	--	--	
	3/25/1995	6.98	6.34	NP	0.64	44,000	390	960	1,500	7,600	--	--	--	--	--	--	--	--	--	
	6/21/1995	6.98	7.11	NP	-0.13	400	2.3	ND	9.1	3.5	--	--	--	--	--	--	--	--	--	
	9/19/1995	6.98	6.98	NP	0.00	850	14	7.1	13	66	--	--	--	--	--	--	--	--	--	
12/19/1995	6.98	7.17	NP	-0.19	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--		
3/18/1996	6.98	6.65	NP	0.33	100	0.67	0.5	0.51	5.4	--	--	--	--	--	--	--	--	--		
6/27/1996	6.98	6.48	NP	0.50	16,000	280	150	1,400	4,600	530	--	--	--	--	--	--	--	--		
9/26/1996	6.98	7.13	NP	-0.15	ND	ND	0.57	ND	0.96	ND	--	--	--	--	--	--	--	--		
12/9/1996	6.98	5.90	NP	1.08	1,300	29	46	ND	140	97	--	--	--	--	--	--	--	--		
3/14/1997	6.98	6.98	NP	0.00	ND	ND	ND	ND	14	--	--	--	--	--	--	--	--	--		
6/30/1997	6.98	7.07	NP	-0.09	4,200	74	51	180	980	270	--	--	--	--	--	--	--	--		
9/19/1997	6.98	6.78	NP	0.20	6,300	160	13	370	1,000	480	--	--	--	--	--	--	--	--		
12/12/1997	6.98	6.94	NP	0.04	60	1.3	ND	1.6	2.1	47	--	--	--	--	--	--	--	--		
3/3/1998	6.98	6.50	NP	0.48	1,700	29	ND	150	190	330	--	--	--	--	--	--	--	--		
6/15/1998	6.98	6.84	NP	0.14	1,500	32	ND	91	83	330	--	--	--	--	--	--	--	--		
9/30/1998	6.98	7.30	NP	-0.32	1,700	44	ND	39	150	60	--	--	--	--	--	--	--	--		
12/28/1998	6.98	7.25	NP	-0.27	1,400	59	ND	13	27	150	--	--	--	--	--	--	--	--		
3/22/1999	6.98	6.86	NP	0.12	780	8.9	ND	0.76	4.5	350	--	--	--	--	--	--	--	--		
6/9/1999	6.98	7.28	NP	-0.30	1,000	ND	ND	10	35	280	--	--	--	--	--	--	--	--		
9/8/1999	6.98	7.51	NP	-0.53	2,620	26.2	ND	32.2	157	280	--	--	--	--	--	--	--	--		
12/7/1999	6.98	7.67	NP	-0.69	949	9.26	ND	11.2	22.7	235	--	--	--	--	--	--	--	--		
3/13/2000	6.98	6.73	NP	0.25	880	12	1.0	5.6	8.7	46	--	--	--	--	--	--	--	--		
6/21/2000	6.98	7.38	NP	-0.40	700	4.0	ND	0.99	4.0	120	--	--	--	--	--	--	--	--		
9/27/2000	6.98	7.44	NP	-0.46	400	1.9	ND	ND	1.5	160	--	--	--	--	--	--	--	--		
12/12/2000	6.98	7.67	NP	-0.69	770	3.2	ND	ND	ND	27	--	--	--	--	--	--	--	--		
3/7/2001	6.98	6.82	NP	0.16	623	5.15	ND	ND	0.669	35.7	43.4	ND	ND	ND	ND	ND	ND	ND		
6/6/2001	6.98	7.42	NP	-0.44	110	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
9/24/2001	6.98	7.50	NP	-0.52	270	<0.50	<0.50	<0.50	<0.50	40	42	<10	<10	<10	<200	<4000	<10	<10		
12/10/2001	6.98	6.65	NP	0.33	420	13	0.60	0.66	<0.50	<2.5	--	--	--	--	--	--	--	--		
3/11/2002	6.98	7.00	NP	-0.02	260	<0.50	<0.50	<0.50	<0.50	42	47	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0		
6/4/2002	6.98	6.71	NP	0.27	170	<0.50	0.77	0.87	0.69	29	--	--	--	--	--	--	--	--		
9/3/2002	6.98	7.46	NP	-0.48	<50	<0.50	<0.50	<0.50	<0.50	37	53	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0		
12/3/2002	6.98	6.63	NP	0.35	320	<0.50	<0.50	5.7	<1.0	--	11	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0		
3/4/2003	6.98	6.75	NP	0.23	100	<0.50	<0.50	<0.50	<1.0	--	44	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0		
6/18/2003	6.98	6.25	NP	0.73	51	<0.50	<0.50	<0.50	<1.0	--	36	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0		

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3200 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPH _g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
U-5	9/24/2003	6.98	6.86	NP	0.12	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	12/2/2003	6.98	7.11	NP	-0.13	<50	<0.50	<0.50	<0.50	<1.0	--	24	--	--	--	--	<500	--	--
	3/30/2004	6.98	6.88	NP	0.10	100	<0.50	<0.50	<0.50	<1.0	--	130	<1.0	<0.50	<0.50	52	<50	<0.50	<0.50
	6/7/2004	6.98	8.52	NP	-1.54	250	<0.50	<0.50	<0.50	<1.0	--	160	<1.0	<0.50	<0.50	69	<50	<0.50	<0.50
	9/9/2004	6.98	12.27	NP	-5.29	340	<0.50	<0.50	<0.50	<1.0	--	260	<1.0	<0.50	<0.50	130	<50	<0.50	<0.50
	12/20/2004	6.98	7.51	NP	-0.53	130	<0.50	<0.50	1.9	2.0	--	120	--	--	--	--	<50	--	--
	3/28/2005	6.98	7.21	NP	-0.23	670	<2.0	<2.0	<2.0	<4.0	--	230	<0.50	<0.50	<0.50	150	<50	<0.50	<0.50
	6/14/2005	6.98	7.46	NP	-0.48	160	<0.50	<0.50	<0.50	<1.0	--	400	<0.50	<0.50	<0.50	160	<100	<0.50	<0.50
	9/28/2005	6.98	9.59	NP	-2.61	460	<0.50	<0.50	<0.50	<1.0	--	370	<0.50	<0.50	<0.50	220	<250	<0.50	<0.50
	12/29/2005	6.98	7.53	NP	-0.55	150	<0.50	<0.50	<0.50	<1.0	--	190	<0.50	<0.50	<0.50	280	<250	<0.50	<0.50
	3/27/2006	6.98	6.28	NP	0.70	450	<0.50	<0.50	8.3	<1.0	--	70	--	--	--	--	<250	--	--
	6/12/2006	6.98	6.44	NP	0.54	370	<0.50	<0.50	<0.50	<1.0	--	61	--	--	--	--	<250	--	--
	9/21/2006	6.98	6.59	NP	0.39	130	<0.50	<0.50	<0.50	<0.50	--	35	--	--	--	--	<250	--	--
	12/21/2006	6.98	6.92	NP	0.06	230	<0.50	<0.50	0.58	<0.50	--	11	--	--	--	--	<250	--	--
	3/28/2007	6.98	5.11	NP	1.87	400	<0.50	<0.50	5.4	<0.50	--	13	<0.50	<0.50	<0.50	870	<250	<0.50	<0.50
	6/27/2007	6.98	4.40	NP	2.58	210	<0.50	<0.50	2.4	<0.50	--	18	<0.50	<0.50	<0.50	220	<250	<0.50	<0.50
	9/26/2007	6.98	4.71	NP	2.27	740	<0.50	<0.50	<0.50	<0.50	--	18	--	--	--	--	<250	--	--
	12/27/2007	6.98	6.76	NP	0.22	180	<0.50	<0.50	<0.50	<1.0	--	18	--	--	--	--	<250	--	--
	3/26/2008	6.98	6.40	NP	0.58	310	<0.50	0.64	1.3	1.0	--	27	--	--	--	--	<250	--	--
	6/18/2008	6.98	5.71	NP	1.27	790	<0.50	<0.50	2.4	<1.0	--	22	--	--	--	--	<250	--	--
	9/24/2008	6.98	5.44	NP	1.54	860	1.2	<0.50	3.2	3.7	--	16	--	--	--	--	<250	--	--
	12/22/2008	6.98	6.82	NP	0.16	620	<0.50	<0.50	0.54	1.3	--	13	--	--	--	--	<250	--	--
	3/26/2009	6.98	6.19	NP	0.79	310	<0.50	<0.50	<0.50	<1.0	--	9.4	--	--	--	--	<250	--	--
	6/23/2009	6.98	5.50	NP	1.48	80	<0.50	<0.50	<0.50	<1.0	--	7.1	--	--	--	--	<250	--	--
	12/3/2009	6.98	6.02	NP	0.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/4/2009	--	--	--	--	160	<0.50	<0.50	<0.50	<1.5	--	4.6	--	--	--	79.4	<250	--	--
	6/28/2010	6.98	5.51	NP	1.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	6.98	5.71	NP	1.27	144	<0.50	<0.50	<0.50	<1.5	--	3.8	<0.50	<0.50	<0.50	66.6	<250	<1.0	<1.0
	12/20/2010	6.98	5.82	NP	1.16	164	<0.50	<0.50	<0.50	<1.5	--	3.9	<0.50	<0.50	<0.50	67.7	<250	<1.0	<1.0
	6/3/2011	6.98	6.05	NP	0.93	85.0	<0.50	<0.50	<0.50	<1.5	--	3.0	<0.50	<0.50	<0.50	61.6	<250	<1.0	<1.0
	12/5/2011	12.77	5.83	NP	6.94	279	<0.50	<0.50	<0.50	<1.5	--	3.8	<0.50	<0.50	<0.50	86.6	<250	<1.0	<1.0
	6/6/2012	12.77	6.90	NP	5.87	66.3	<0.50	<0.50	<0.50	<1.5	--	2.4	<0.50	<0.50	<0.50	46.3	<250	<1.0	<1.0
	12/19/2012	12.77	7.36	NP	5.41	88	<0.50	<0.50	<0.50	<0.50	--	5.1	<0.50	<0.50	<0.50	110	<5.0	<0.50	<0.50
	3/13/2013	12.77	7.62	NP	5.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2013	12.77	7.16	NP	5.61	<50	<0.50	<0.50	<0.50	<0.50	--	12	<0.50	<0.50	<0.50	200	<5.0	<0.50	<0.50
	U-6	6/22/1994	7.14	7.13	NP	0.01	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
		9/22/1994	7.14	7.34	NP	-0.20	130	1.3	0.8	ND	0.73	--	--	--	--	--	--	--	--
		12/24/1994	7.14	6.67	NP	0.47	6,900	500	59	600	380	--	--	--	--	--	--	--	--
		3/25/1995	7.14	6.28	NP	0.86	47,000	450	1,300	1,700	8,200	--	--	--	--	--	--	--	--
		6/21/1995	7.14	7.59	NP	-0.45	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
9/19/1995		7.14	7.69	NP	-0.55	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
12/19/1995		7.14	7.75	NP	-0.61	210	2.5	1.0	2.9	17	--	--	--	--	--	--	--	--	
3/18/1996		7.14	6.86	NP	0.28	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
6/27/1996		7.14	6.51	NP	0.63	ND	ND	ND	ND	ND	510	--	--	--	--	--	--	--	
9/26/1996		7.14	7.61	NP	-0.47	ND	ND	ND	ND	ND	1,400	--	--	--	--	--	--	--	
12/9/1996		7.14	5.88	NP	1.26	1,200	29	48	6.4	140	58	--	--	--	--	--	--	--	
3/14/1997		7.14	7.30	NP	-0.16	ND	ND	ND	ND	ND	1,500	--	--	--	--	--	--	--	
6/30/1997		7.14	7.34	NP	-0.20	ND	ND	ND	ND	ND	990	--	--	--	--	--	--	--	
9/19/1997		7.14	7.25	NP	-0.11	ND	ND	ND	ND	ND	1,400	--	--	--	--	--	--	--	
12/12/1997		7.14	7.28	NP	-0.14	ND	ND	ND	ND	ND	680	--	--	--	--	--	--	--	
3/3/1998		7.14	7.00	NP	0.14	ND	ND	ND	ND	ND	1,600	--	--	--	--	--	--	--	
6/15/1998		7.14	7.17	NP	-0.03	ND	ND	ND	ND	ND	1,000	--	--	--	--	--	--	--	
9/30/1998		7.14	7.90	NP	-0.76	ND	ND	ND	ND	ND	1,200	--	--	--	--	--	--	--	
12/28/1998		7.14	7.78	NP	-0.64	ND	ND	ND	ND	ND	730	--	--	--	--	--	--	--	
3/22/1999		7.14	7.46	NP	-0.32	ND	ND	ND	ND	ND	1,800	--	--	--	--	--	--	--	
6/9/1999		7.14	7.73	NP	-0.59	ND	ND	ND	ND	ND	1,000	850	--	--	--	--	--	--	
9/8/1999		7.14	7.94	NP	-0.80	ND	ND	ND	ND	ND	851	1,040	--	--	--	--	--	--	
12/7/1999		7.14	8.10	NP	-0.96	ND	ND	ND	ND	ND	1,140	1,150	--	--	--	--	--	--	
3/13/2000		7.14	6.94	NP	0.20	ND	ND	ND	ND	ND	560	670	--	--	--	--	--	--	
6/21/2000		7.14	7.84	NP	-0.70	ND	ND	ND	ND	ND	400	590	--	--	--	--	--	--	
9/27/2000		7.14	7.67	NP	-0.53	ND	ND	ND	ND	ND	2,500	2,800	--	--	--	--	--	--	

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3200 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
U-6	12/12/2000	7.14	7.73	NP	-0.59	ND	ND	ND	ND	ND	590	580	--	--	--	--	--	--	--	
	3/7/2001	7.14	7.26	NP	-0.12	ND	ND	ND	ND	ND	310	321	ND	ND	ND	ND	ND	ND	ND	
	6/6/2001	7.14	7.80	NP	-0.66	ND	ND	ND	ND	ND	250	330	ND	ND	ND	ND	ND	ND	ND	
	9/24/2001	7.14	7.82	NP	-0.68	<50	<0.50	<0.50	<0.50	<0.50	530	660	<100	<100	<100	<2000	<40000	<100	<100	
	12/10/2001	7.14	7.15	NP	-0.01	<50	<0.50	<0.50	<0.50	<0.50	220	220	<5.0	<5.0	<5.0	<200	<400	<5.0	<5.0	
	3/11/2002	7.14	7.32	NP	-0.18	<50	<0.50	<0.50	<0.50	<0.50	720	760	<8.0	<8.0	<8.0	<400	<2000	<8.0	<8.0	
	6/4/2002	7.14	7.17	NP	-0.03	250	<1.0	<1.0	<1.0	<1.0	470	--	--	--	--	--	--	--	--	
	9/3/2002	7.14	7.71	NP	-0.57	420	<2.5	<2.5	<2.5	<2.5	4.7	860	1,200	<40	<40	<40	<2000	<40	<40	
	12/3/2002	7.14	6.92	NP	0.22	<500	<5.0	<5.0	<5.0	<5.0	<10	--	870	<20	<20	<20	<1000	<5000	<20	<20
	3/4/2003	7.14	7.01	NP	0.13	2300	<10	<10	<10	<10	<20	--	2,700	<40	<40	<40	<2000	<10000	<40	<40
	6/18/2003	7.14	6.59	NP	0.55	1300	<10	<10	<10	<10	<20	--	1,700	<40	<40	<40	<2000	<10000	<40	<40
	9/24/2003	7.14	7.23	NP	-0.09	<10000	<100	<100	<100	<100	<200	--	1,500	<400	<400	<400	<20000	<100000	<400	<400
	12/2/2003	7.14	7.80	NP	-0.66	1300	<10	<10	<10	<10	<20	--	1,800	--	--	--	--	<10000	--	--
	3/30/2004	7.14	7.32	NP	-0.18	1200	<10	<10	<10	<10	<20	--	1,700	<20	<10	<10	770	<1000	<10	<10
	6/7/2004	7.14	9.35	NP	-2.21	1700	<10	<10	<10	<10	<20	--	1,800	<20	<10	<10	110	<1000	<10	<10
	9/9/2004	7.14	12.81	NP	-5.67	<1000	<10	<10	<10	<10	<20	--	1,400	<20	<10	<10	1,900	<1000	<10	<10
	12/20/2004	7.14	7.96	NP	-0.82	320	<2.5	<2.5	<2.5	<5.0	<10	--	65	<5.0	<2.5	<2.5	5,000	<250	<2.5	<2.5
	3/28/2005	7.14	7.07	NP	0.07	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	150	<0.50	<0.50	<0.50	990	--	<2.5	<0.50
	6/14/2005	7.14	7.88	NP	-0.74	<100	<1.0	<1.0	<1.0	<2.0	<2.0	--	20	<0.50	<0.50	<0.50	<5.0	<100	<0.5	<0.5
	9/28/2005	7.14	10.43	NP	-3.29	150	<0.50	<0.50	<0.50	<1.0	<1.0	--	4.6	<0.50	<0.50	<0.50	3,800	<250	<0.50	<0.50
	12/29/2005	7.14	7.63	NP	-0.49	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	13	<0.50	<0.50	<0.50	1,100	<250	<0.50	<0.50
	3/27/2006	7.14	6.15	NP	0.99	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	8.1	--	--	--	--	<250	--	--
	6/12/2006	7.14	6.59	NP	0.55	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	6.9	--	--	--	--	<250	--	--
	9/21/2006	7.14	6.90	NP	0.24	<50	<0.50	<0.50	<0.50	<0.50	<1.0	--	3.1	--	--	--	--	<250	--	--
	12/21/2006	7.14	7.36	NP	-0.22	<50	<0.50	<0.50	<0.50	<0.50	<1.0	--	1.2	--	--	--	--	<250	--	--
	3/28/2007	7.14	3.48	NP	3.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/27/2007	7.14	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	9/26/2007	7.14	2.71	NP	4.43	54	<0.50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/27/2007	7.14	6.96	NP	0.18	<50	<0.50	<0.50	<0.50	<0.50	<1.0	--	2.4	--	--	--	--	<250	--	--
	3/26/2008	7.14	6.55	NP	0.59	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	2.3	--	--	--	--	<250	--	--
	6/18/2008	7.14	6.71	NP	0.43	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	0.59	--	--	--	--	<250	--	--
	9/24/2008	7.14	5.50	NP	1.64	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/22/2008	7.14	6.48	NP	0.66	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/26/2009	7.14	6.09	NP	1.05	<250	<2.5	<2.5	<2.5	<5.0	<5.0	--	<2.5	--	--	--	--	<1200	--	--
	6/23/2009	7.14	4.80	NP	2.34	<50	<0.50	<0.50	<0.50	<1.0	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/3/2009	7.14	5.31	NP	1.83	<50	<0.50	<0.50	<0.50	<1.5	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	6/28/2010	7.14	4.77	NP	2.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	7.14	4.97	NP	2.17	<50	<0.50	<0.50	<0.50	<1.5	<1.5	--	<0.50	<0.50	<0.50	<0.50	11.4	<250	<1.0	<1.0
	12/20/2010	7.14	4.59	NP	2.55	<50	<0.50	<0.50	<0.50	<1.5	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	6/3/2011	7.14	5.26	NP	1.88	<50	<0.50	<0.50	<0.50	<1.5	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	12/5/2011	12.88	5.35	NP	7.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/6/2012	12.88	7.03	NP	5.85	<50	<0.50	<0.50	<0.50	<1.5	<1.5	--	0.79	<0.50	<0.50	<0.50	9.2	<250	<1.0	<1.0
	12/19/2012	12.88	7.71	NP	5.17	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.5	<0.50	<0.50	<0.50	42	<5.0	<0.50	<0.50
	3/13/2013	12.88	7.90	NP	4.98	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2013	12.88	7.67	NP	5.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.8	<0.50	<0.50	<0.50	37	<5.0	<0.50	<0.50

Gauging Notes:

- TOC - Top of Casing
- ft - Feet
- NP - LNAPL not present
- LNAPL - Light non-aqueous phase liquid
- * - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
- NG - Not gauged
- WI - Well inaccessible
- NSVD - Not surveyed
- DRY - Well is dry
- - No information available

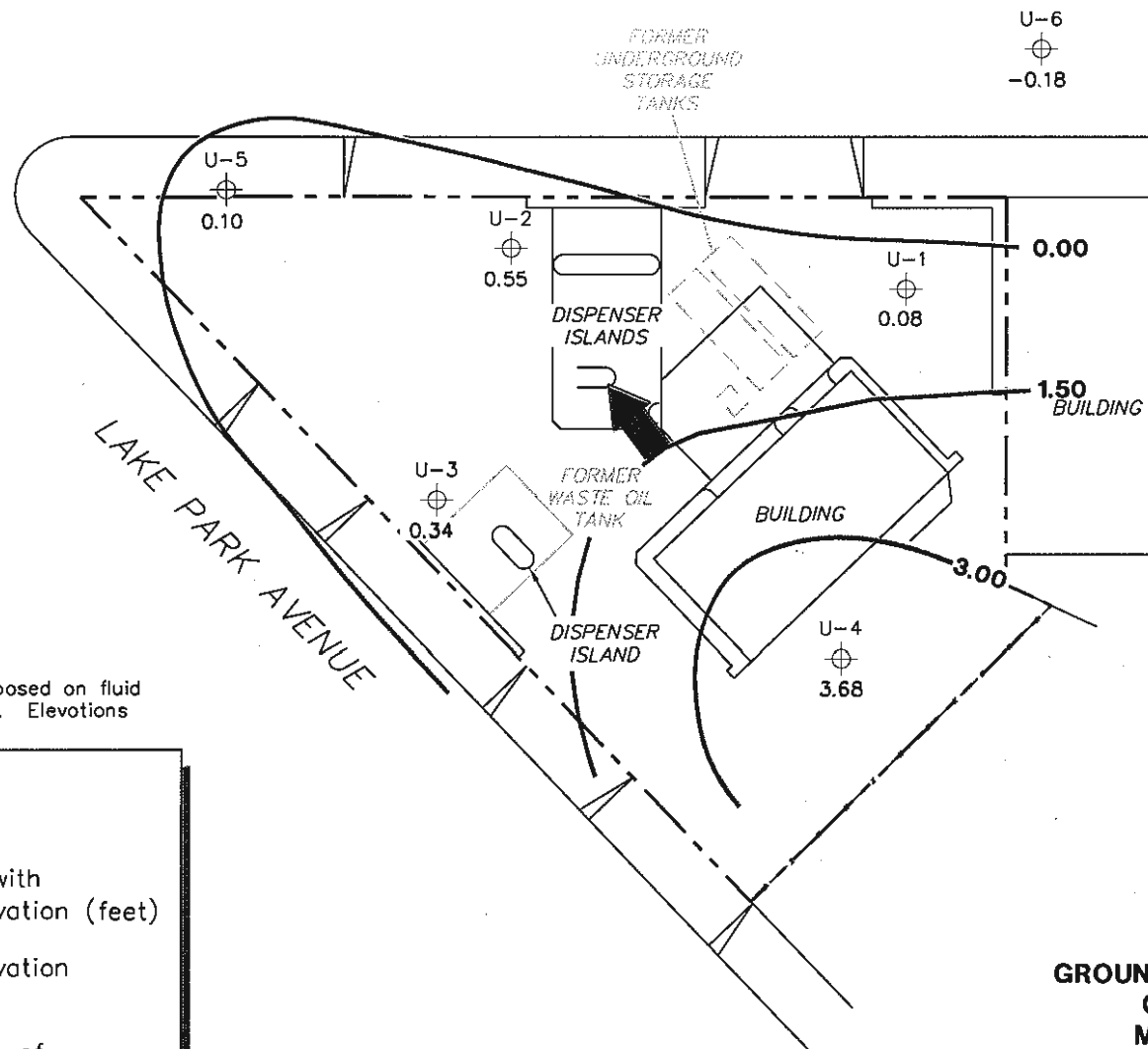
Analytical Notes:

- < - Below Laboratory's indicated reporting limit
- DRY - Well was Dry; sample could not be taken
- LPH - Liquid Phase Hydrocarbons
- ND - Not detected, and detection limit is not known
- ug/L - micrograms/liter
- WI - Well inaccessible
- TPHg: Total petroleum hydrocarbons as gasoline
- MTBE - Methyl tertiary-butyl ether
- DIPE - Di-isopropyl ether
- ETBE - Ethyl tertiary-butyl ether
- TAME - Tertiary-amyl methyl ether
- TBA - Tertiary-butyl alcohol
- Bold** - Above the laboratory's indicated reporting limit

Appendix C

Historical Groundwater Contour Maps

LAKESHORE AVENUE



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.

LEGEND

U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)

3.00 — Groundwater Elevation Contour

➔ General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
March 30, 2004**

76 Station 5325
3220 Lakeshore Avenue
Oakland, California

TRC

SCALE (FEET)



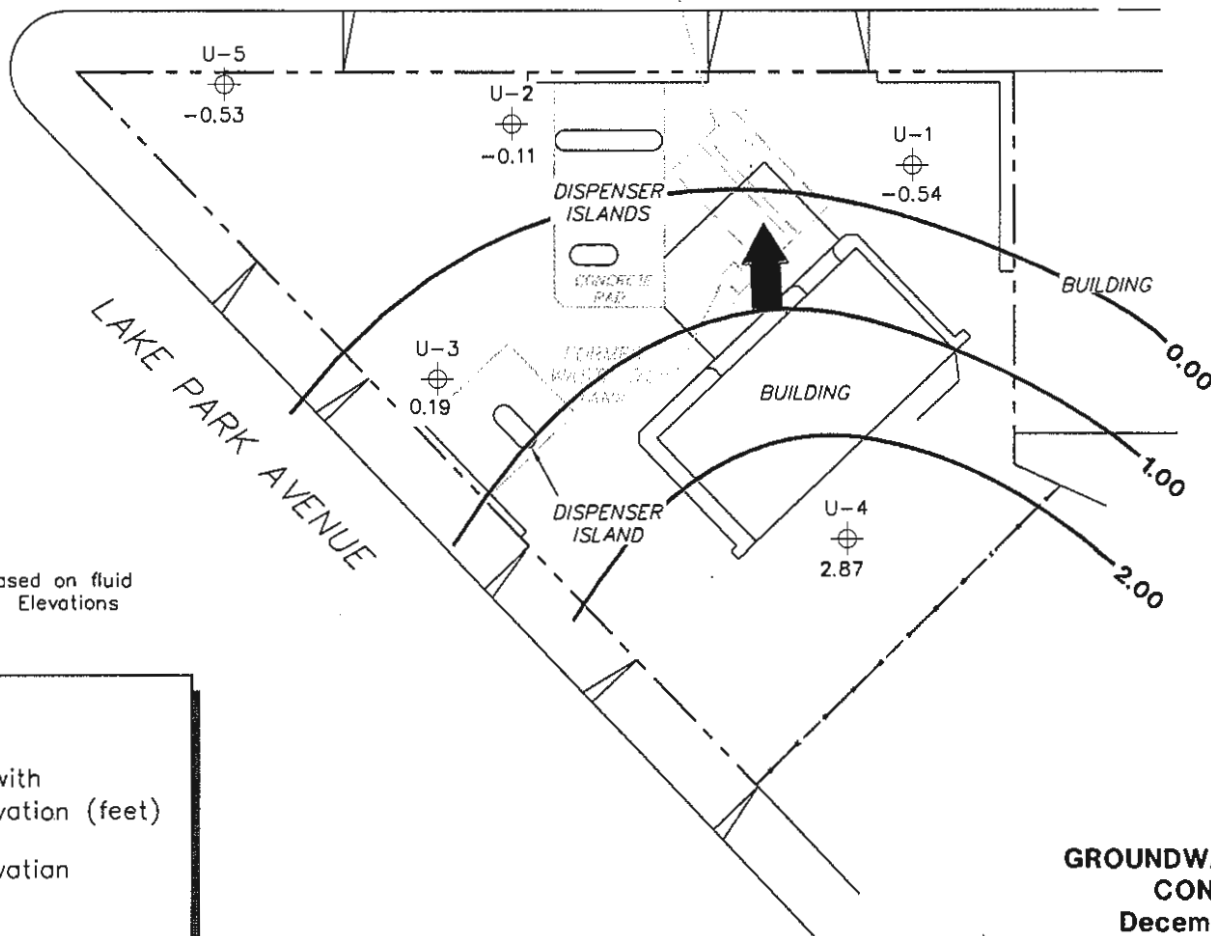
FIGURE 2

PS=1:1

LAKESHORE AVENUE



U-6
-0.82



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
UST = underground storage tank.

LEGEND

U-6 Monitoring Well with Groundwater Elevation (feet)

2.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
December 20, 2004**

76 Station 5325
3220 Lakeshore Avenue
Oakland, California

SCALE (FEET)



FIGURE 2

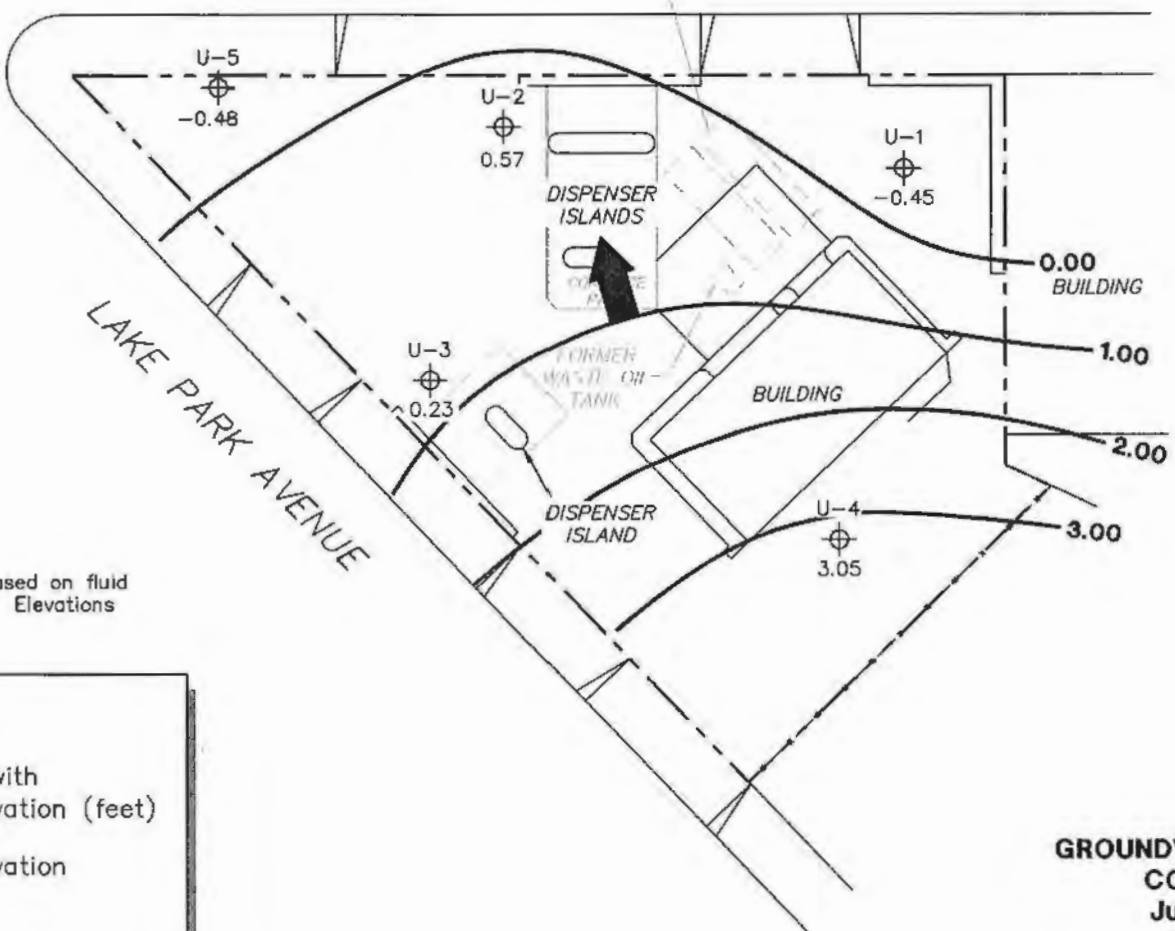
PS=1:1 5325-003

TRC

LAKESHORE AVENUE



U-6
⊕
-0.74



NOTES:

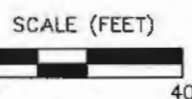
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
UST = underground storage tank.

LEGEND

- U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)
- 3.00 — Groundwater Elevation Contour
- ➔ General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
June 14, 2005**

76 Station 5325
3220 Lakeshore Avenue
Oakland, California

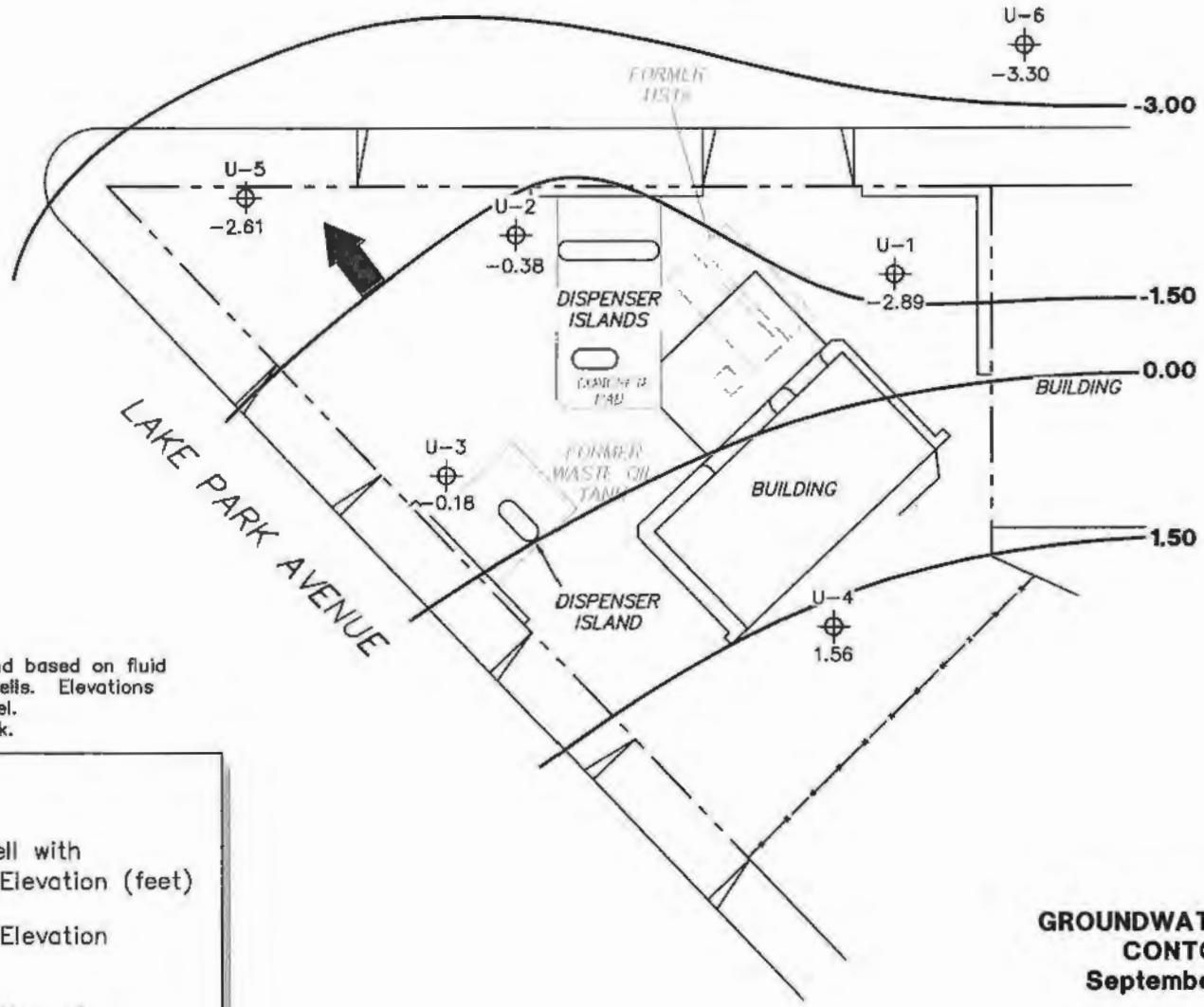


TRC

FIGURE 2

PS=1:1 5325-003

LAKESHORE AVENUE



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

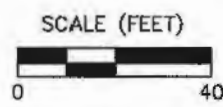
LEGEND

- U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)
- 1.50 — Groundwater Elevation Contour
- ➔ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
September 28, 2005

76 Station 5325
3220 Lakeshore Avenue
Oakland, California

FIGURE 2

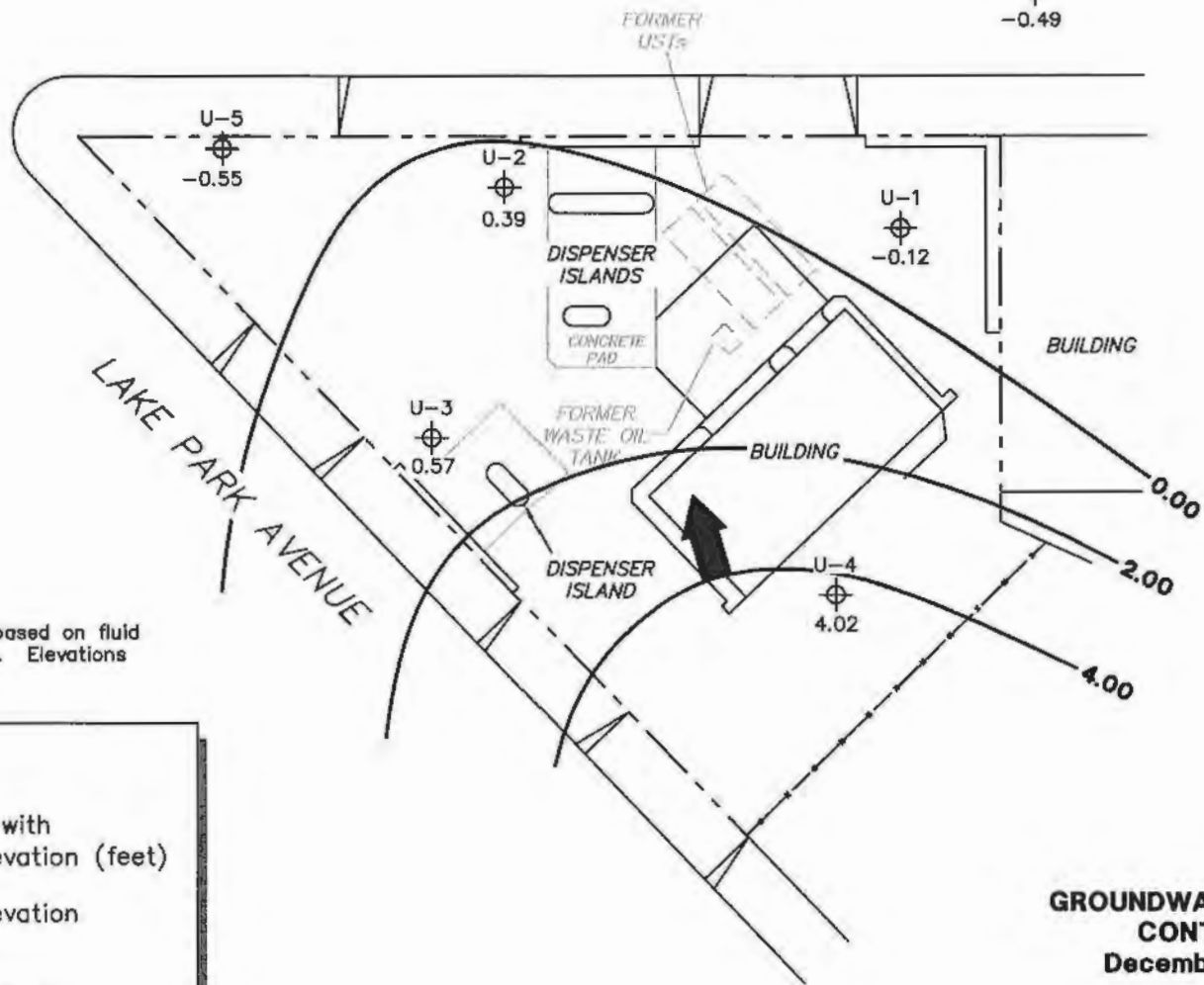


PS=1:1 5325-003

LAKESHORE AVENUE



U-6
⊕
-0.49



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

LEGEND

U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)

4.00 — Groundwater Elevation Contour

➔ General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
December 29, 2005**

76 Station 5325
3220 Lakeshore Avenue
Oakland, California

SCALE (FEET)

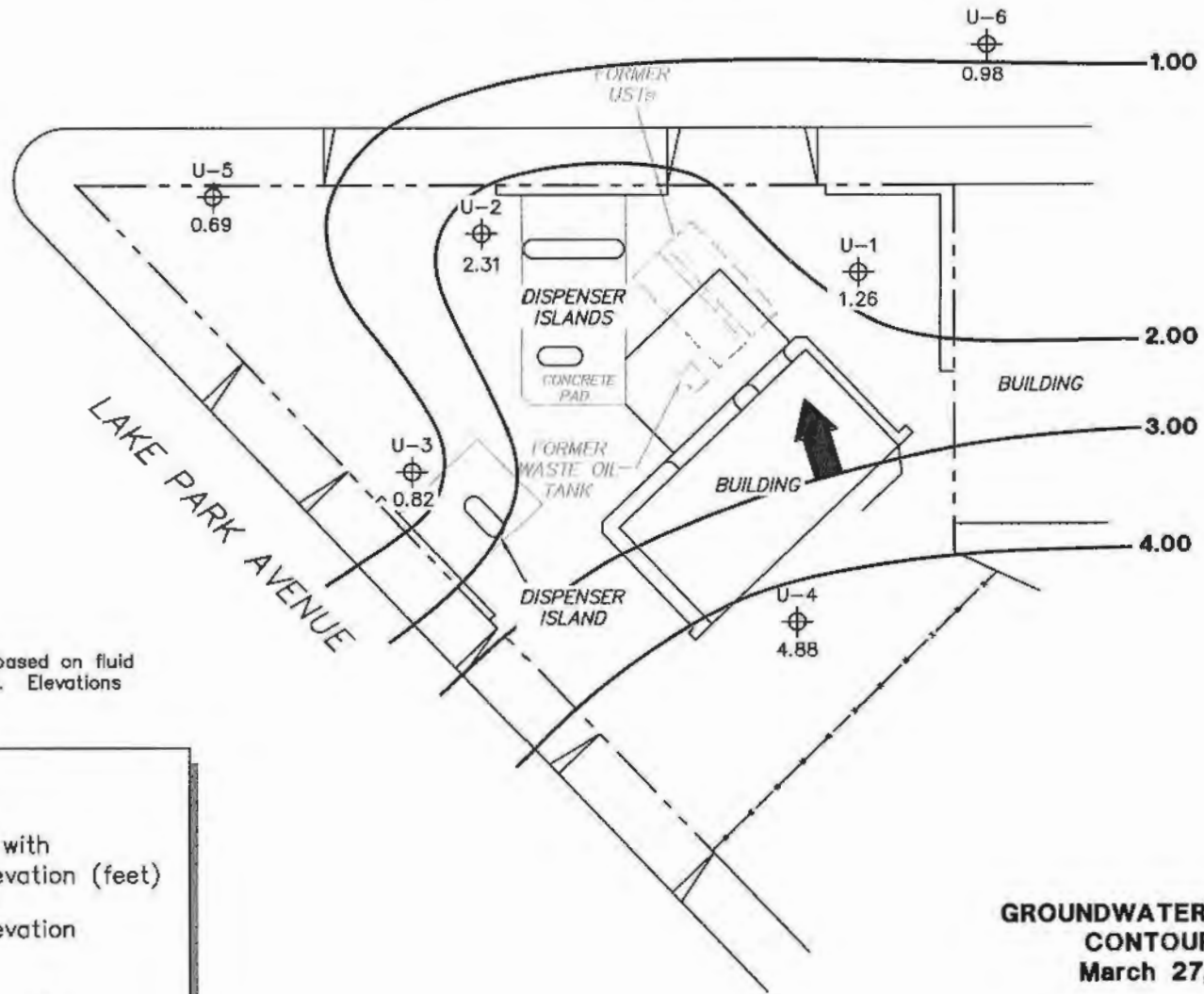


FIGURE 2

TRC

PS=1:1 5325-003

LAKESHORE AVENUE



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
 UST = underground storage tank.

LEGEND

U-6 Monitoring Well with Groundwater Elevation (feet)

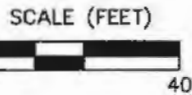
4.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
 CONTOUR MAP
 March 27, 2006**

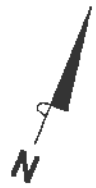
76 Station 5325
 3220 Lakeshore Avenue
 Oakland, California

FIGURE 2



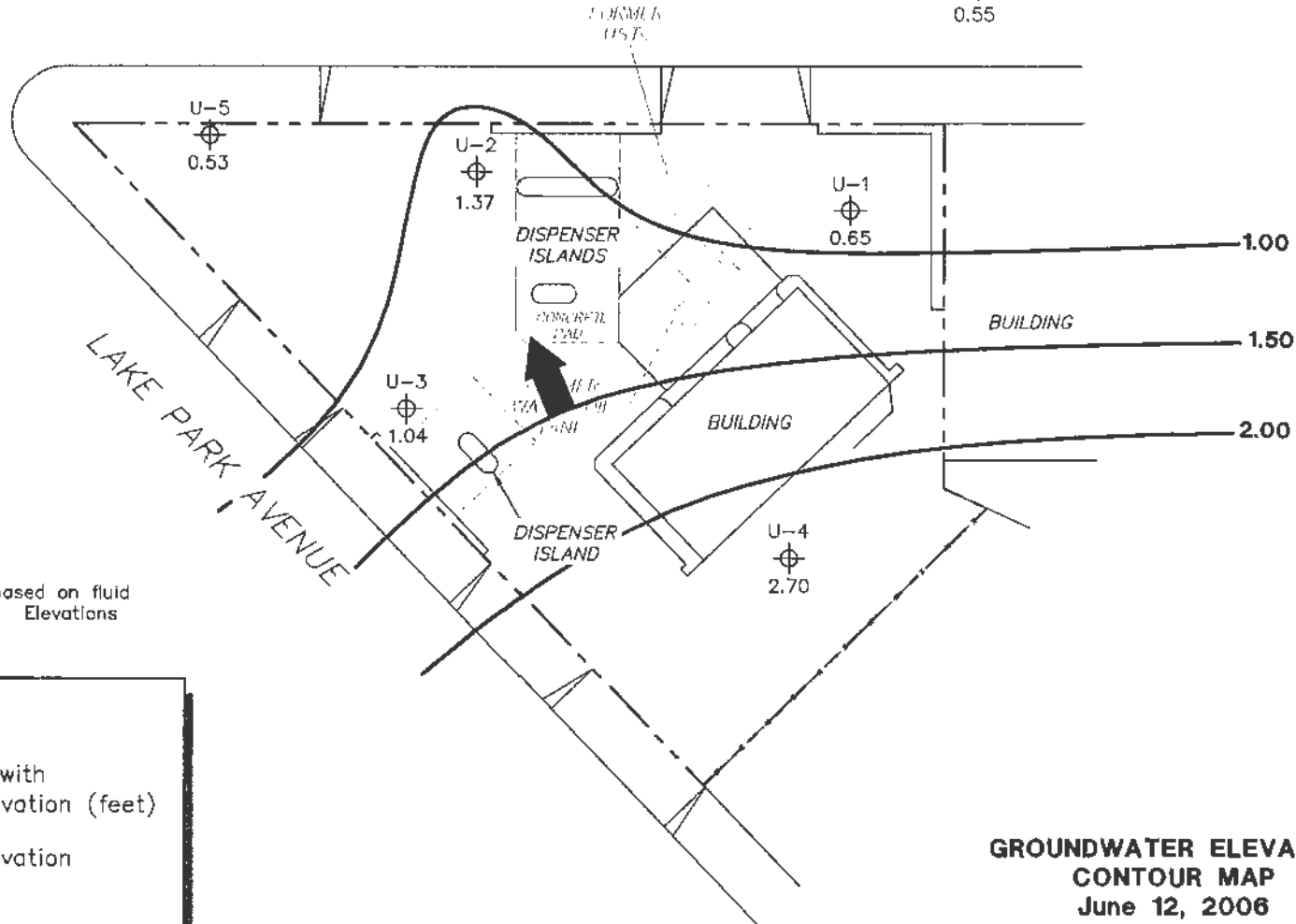
PS=1:1 5325-003

LAKESHORE AVENUE



U-6

 0.55



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
 UST = underground storage tank.

LEGEND

U-6 Monitoring Well with Groundwater Elevation (feet)

2.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
 CONTOUR MAP
 June 12, 2006**

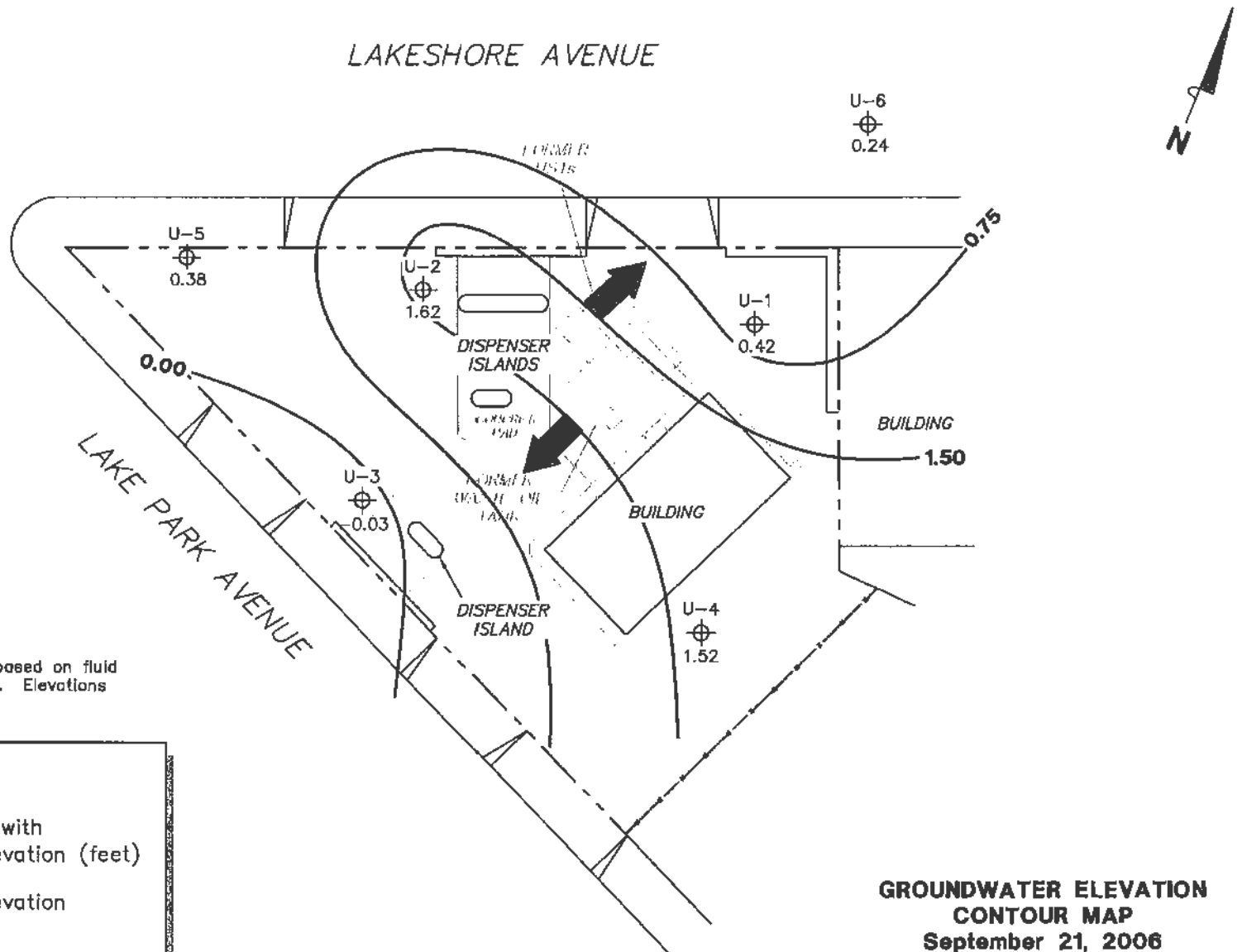
76 Station 5325
 3220 Lakeshore Avenue
 Oakland, California

SCALE (FEET)



TRC

FIGURE 2



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
 UST = underground storage tank.

LEGEND

U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)

1.50 — Groundwater Elevation Contour

➔ General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
 CONTOUR MAP
 September 21, 2006**

76 Station 5325
 3220 Lakeshore Avenue
 Oakland, California

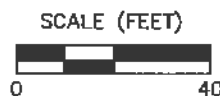
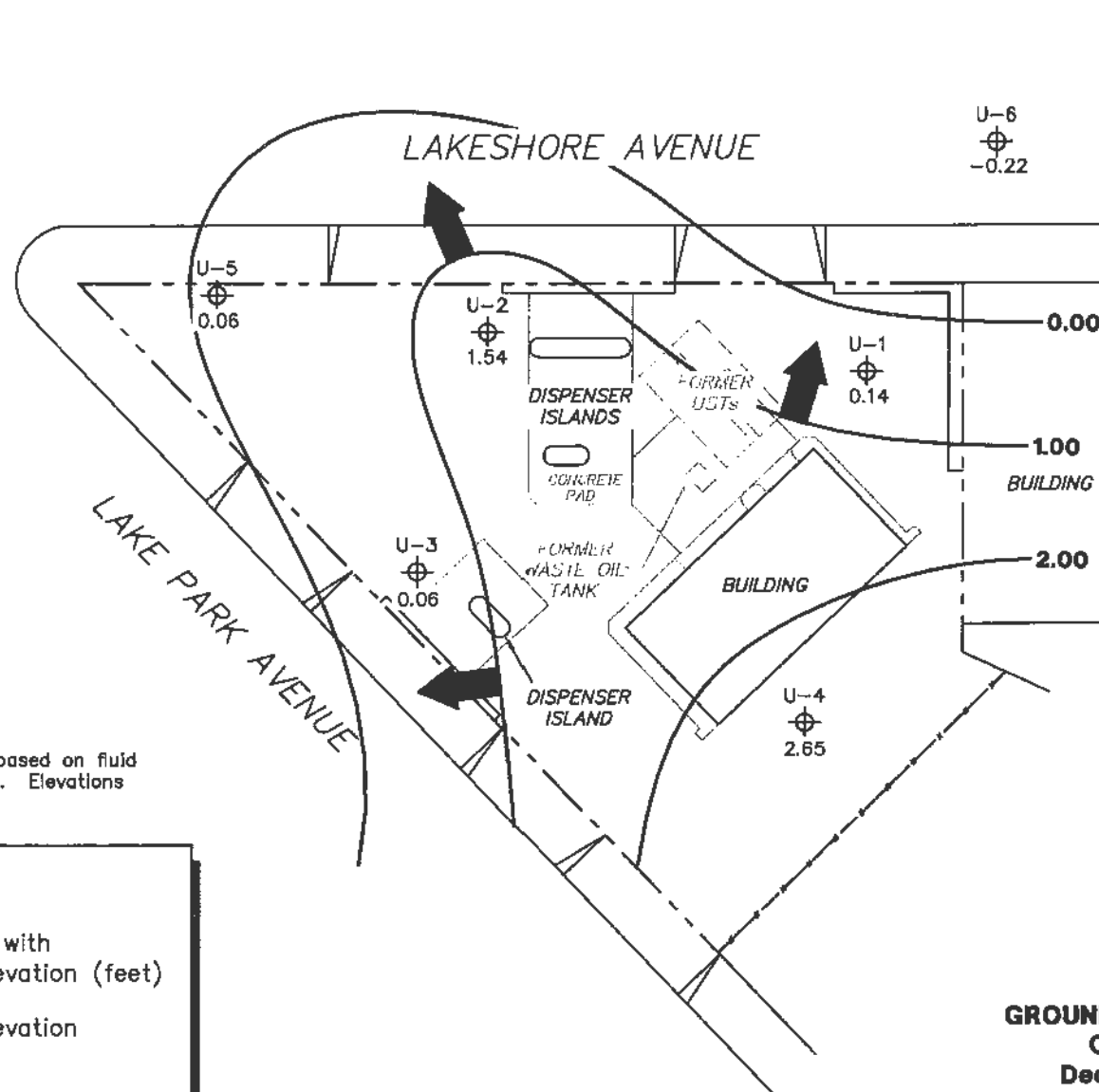


FIGURE 2



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
 UST = underground storage tank.

LEGEND

U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)

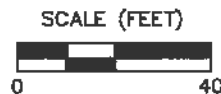
2.00 — Groundwater Elevation Contour

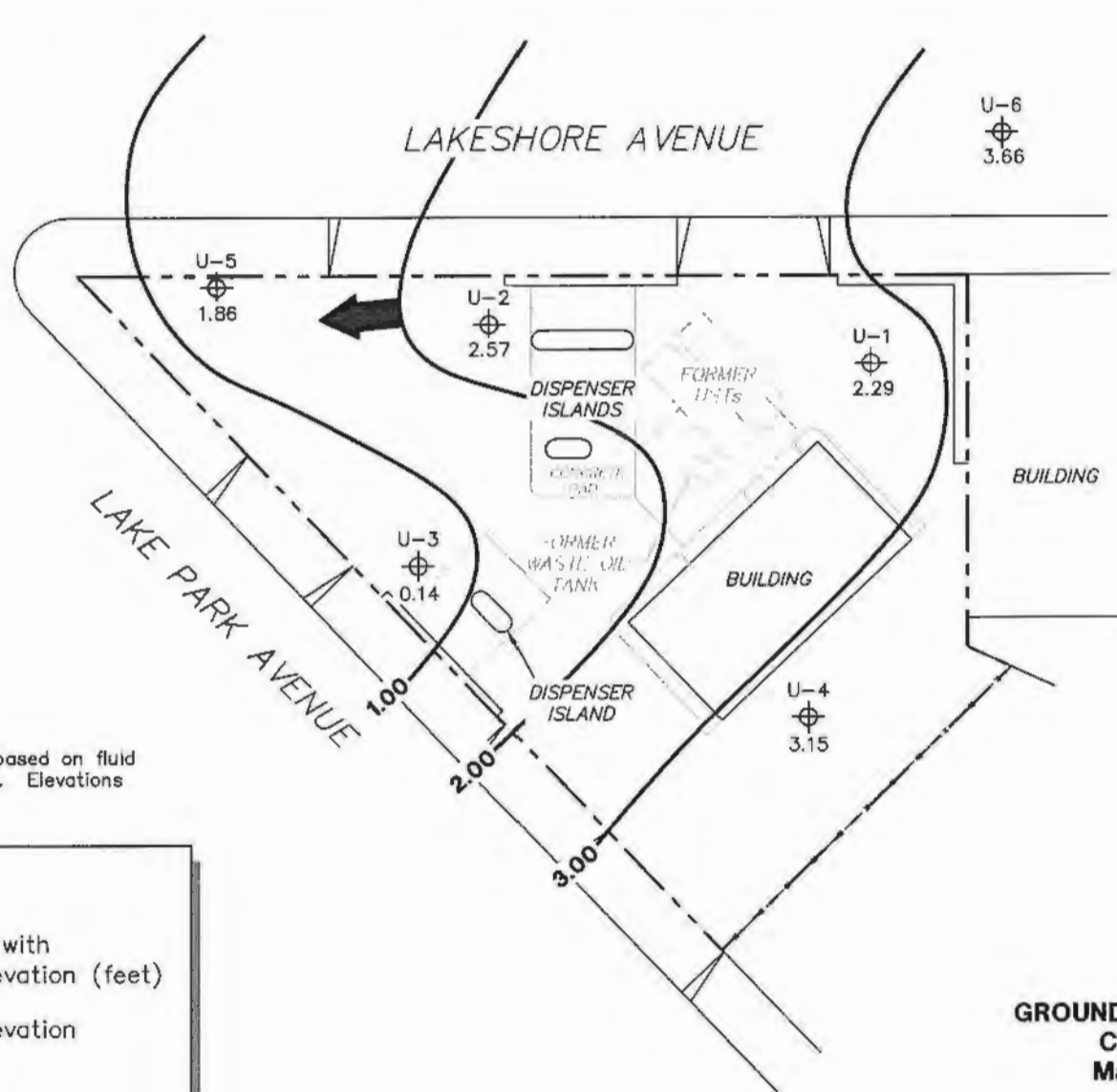
➔ General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
 CONTOUR MAP
 December 21, 2008**

76 Station 5325
 3220 Lakeshore Avenue
 Oakland, California

FIGURE 2





NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level.
 UST = underground storage tank.

LEGEND

U-6 ⊕ Monitoring Well with Groundwater Elevation (feet)

3.00 — Groundwater Elevation Contour

➔ General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
 CONTOUR MAP
 March 28, 2007**

76 Station 5325
 3220 Lakeshore Avenue
 Oakland, California

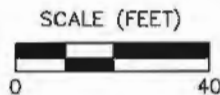



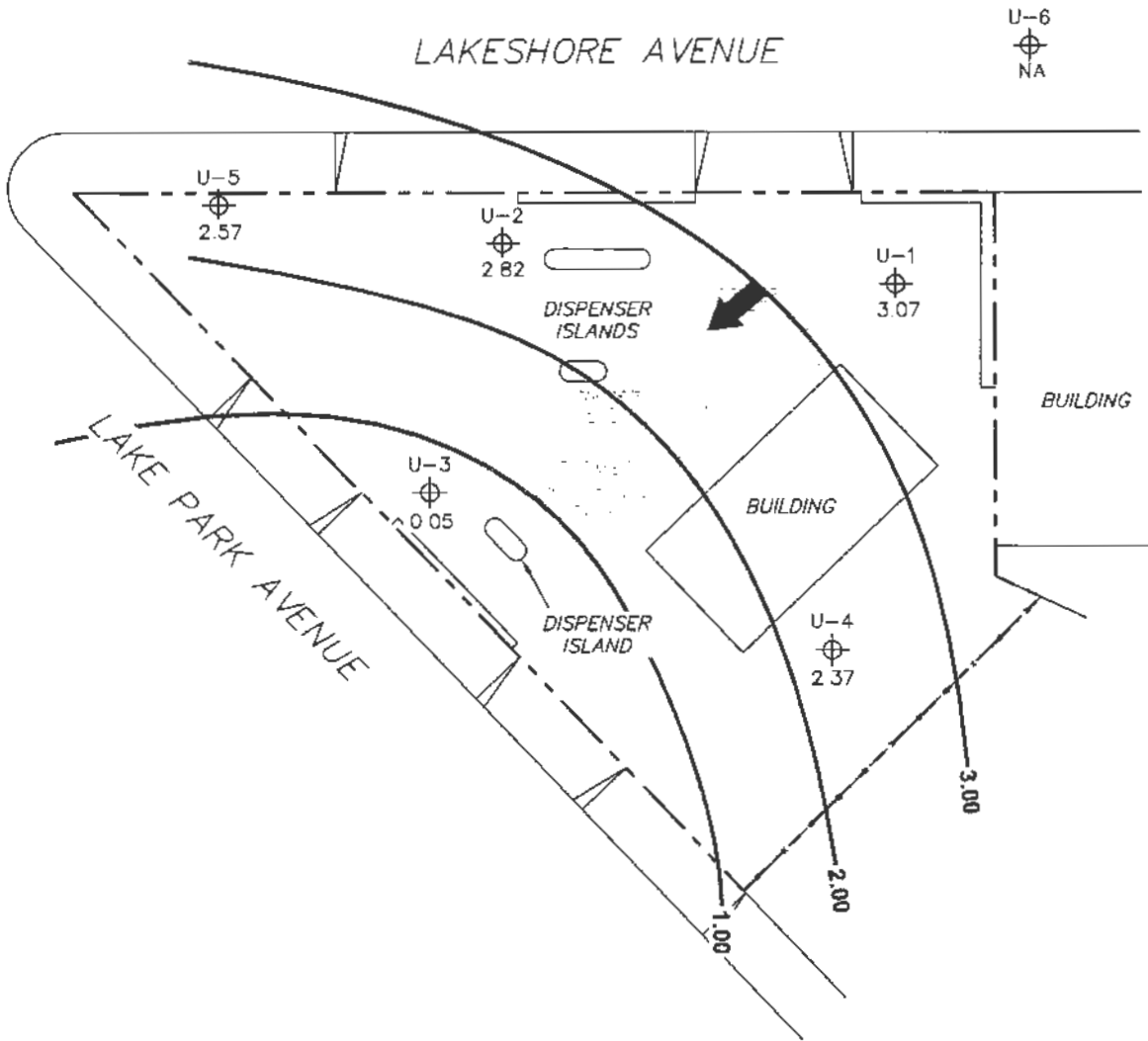


FIGURE 2

LEGEND

- U-6  Monitoring Well with Groundwater Elevation (feet)
- 3.00  Groundwater Elevation Contour
-  General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank.

SCALE (FEET)



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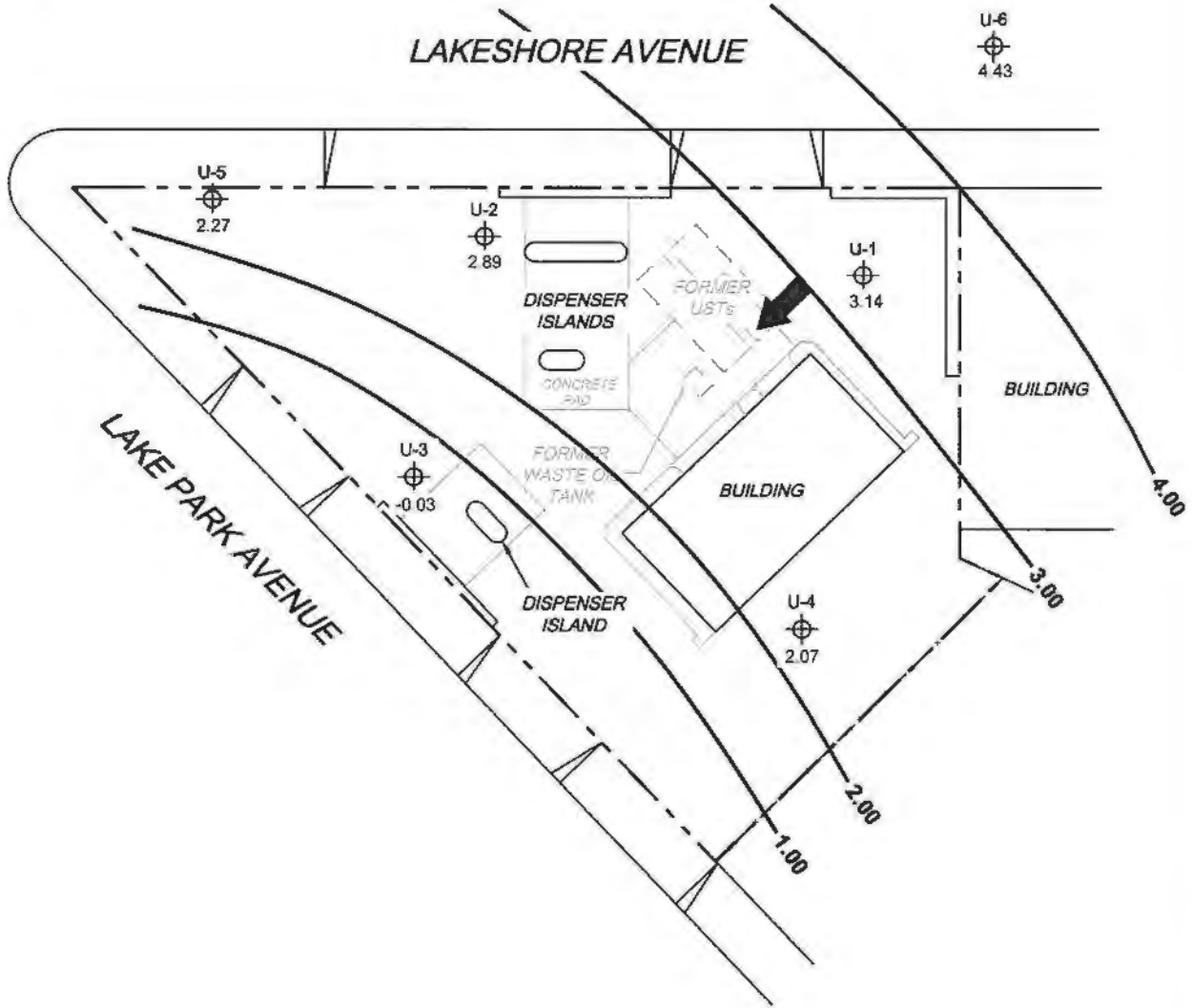
PROJECT: 125703
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
 CONTOUR MAP**
 June 27, 2007

FIGURE 2

LEGEND

- U-6  Monitoring Well with Groundwater Elevation (feet)
- 4.00  Groundwater Elevation Contour
-  General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

SCALE (FEET)



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MS-1:40 5325-003






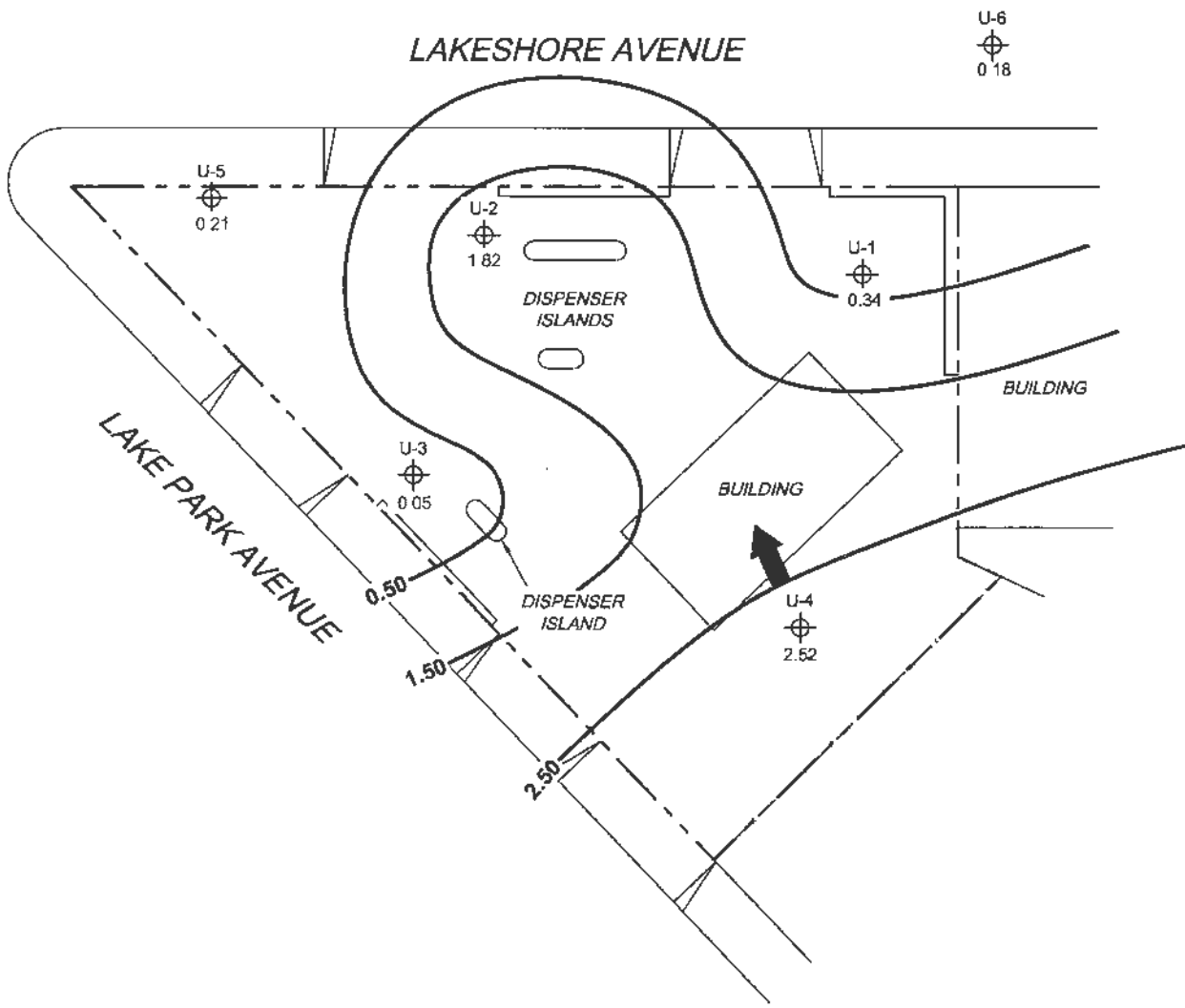
PROJECT: 125703
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
 CONTOUR MAP**
 September 26, 2007

FIGURE 2

LEGEND

- U-6  Monitoring Well with Groundwater Elevation (feet)
- 2.50  Groundwater Elevation Contour
-  General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells
 Elevations are in feet above mean sea level UST = underground storage tank.



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MS=1:40 5325-003





PROJECT: 154771
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA


**GROUNDWATER ELEVATION
 CONTOUR MAP
 December 27, 2007**

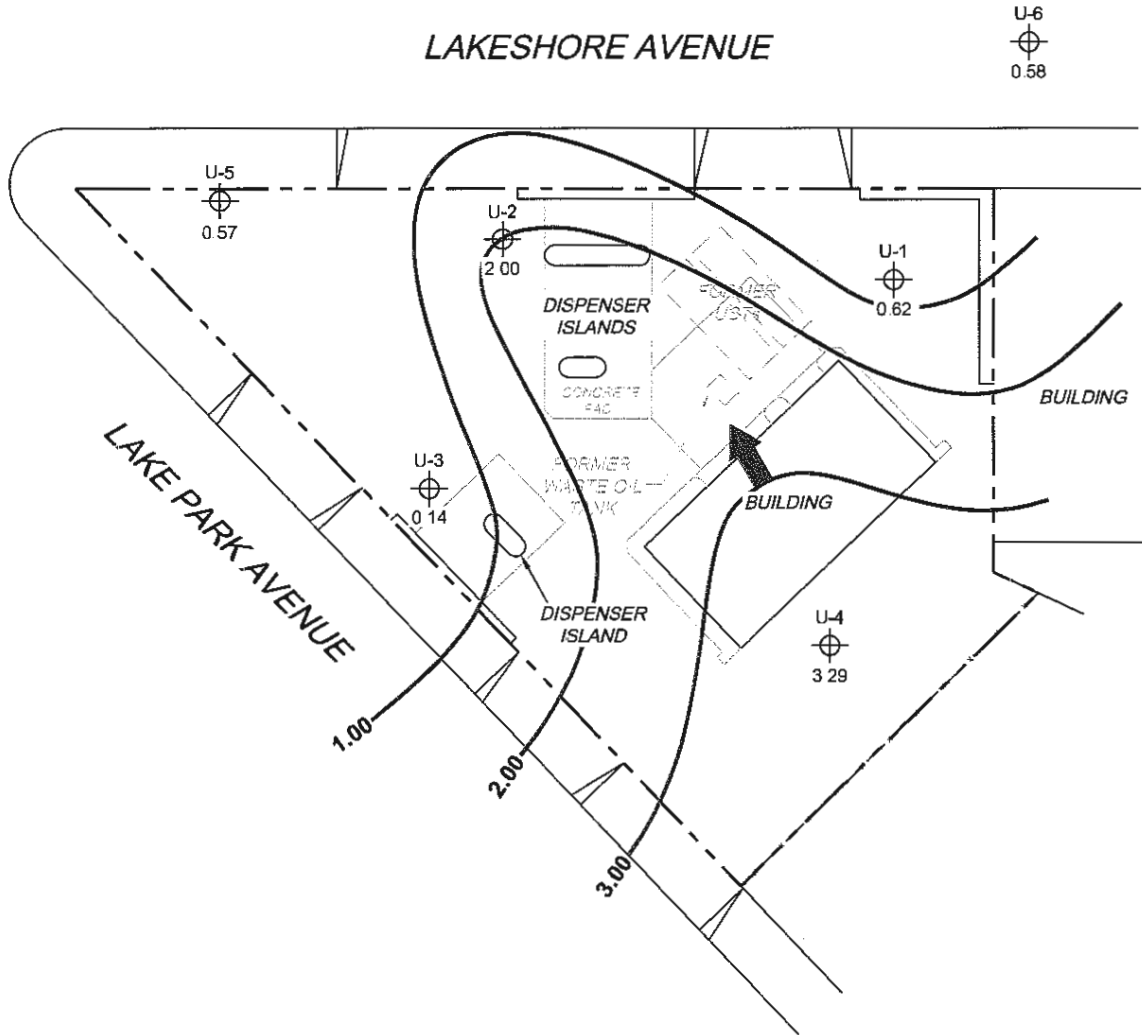
FIGURE 2

LEGEND

U-6  Monitoring Well with Groundwater Elevation (feet)

3.00  Groundwater Elevation Contour

 General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells.
Elevations are in feet above mean sea level UST = underground storage tank

SCALE (FEET)



L:\Graphics\IOMS NORTH-SOUTH\EDK-5000\5325\F5325QMS(NEW).DWG Apr 14, 2008 - 10:55am tschmidt

MS=1:40 5325-003





PROJECT: 154771
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA


**GROUNDWATER ELEVATION
 CONTOUR MAP
 March 26, 2008**

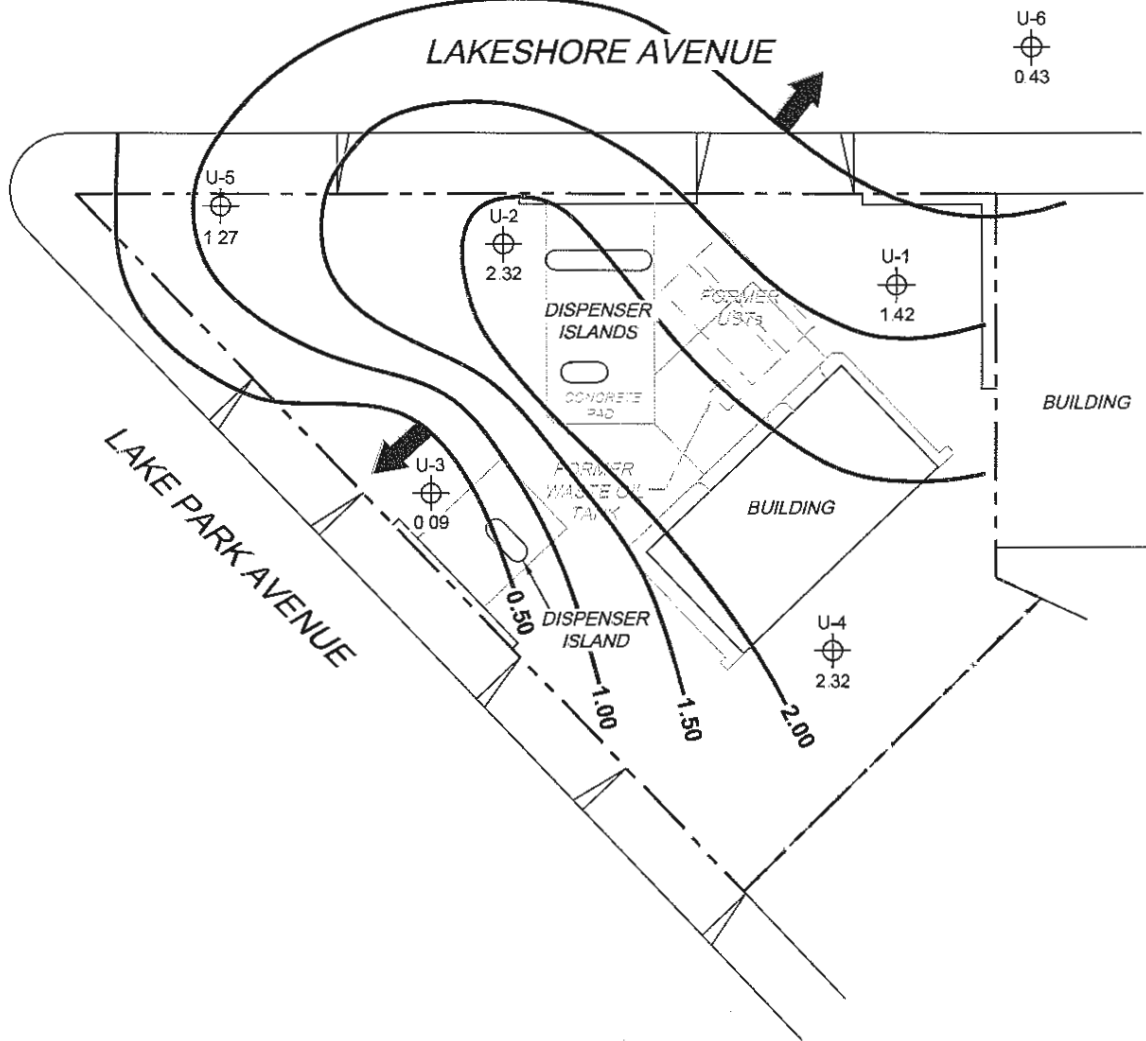
FIGURE 2

LEGEND

U-6  Monitoring Well with Groundwater Elevation (feet)

2.00  Groundwater Elevation Contour

 General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells
Elevations are in feet above mean sea level UST = underground storage tank

SCALE (FEET)



L:\Graphics\CMS NORTH-SOUTH\X-5000\5325\5325.dwg Jul 10, 2008 - 11:10am bschmidt

MS-1:40 5325-003





PROJECT: 154771
FACILITY:
76 STATION 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA


**GROUNDWATER ELEVATION
CONTOUR MAP
June 18, 2008**

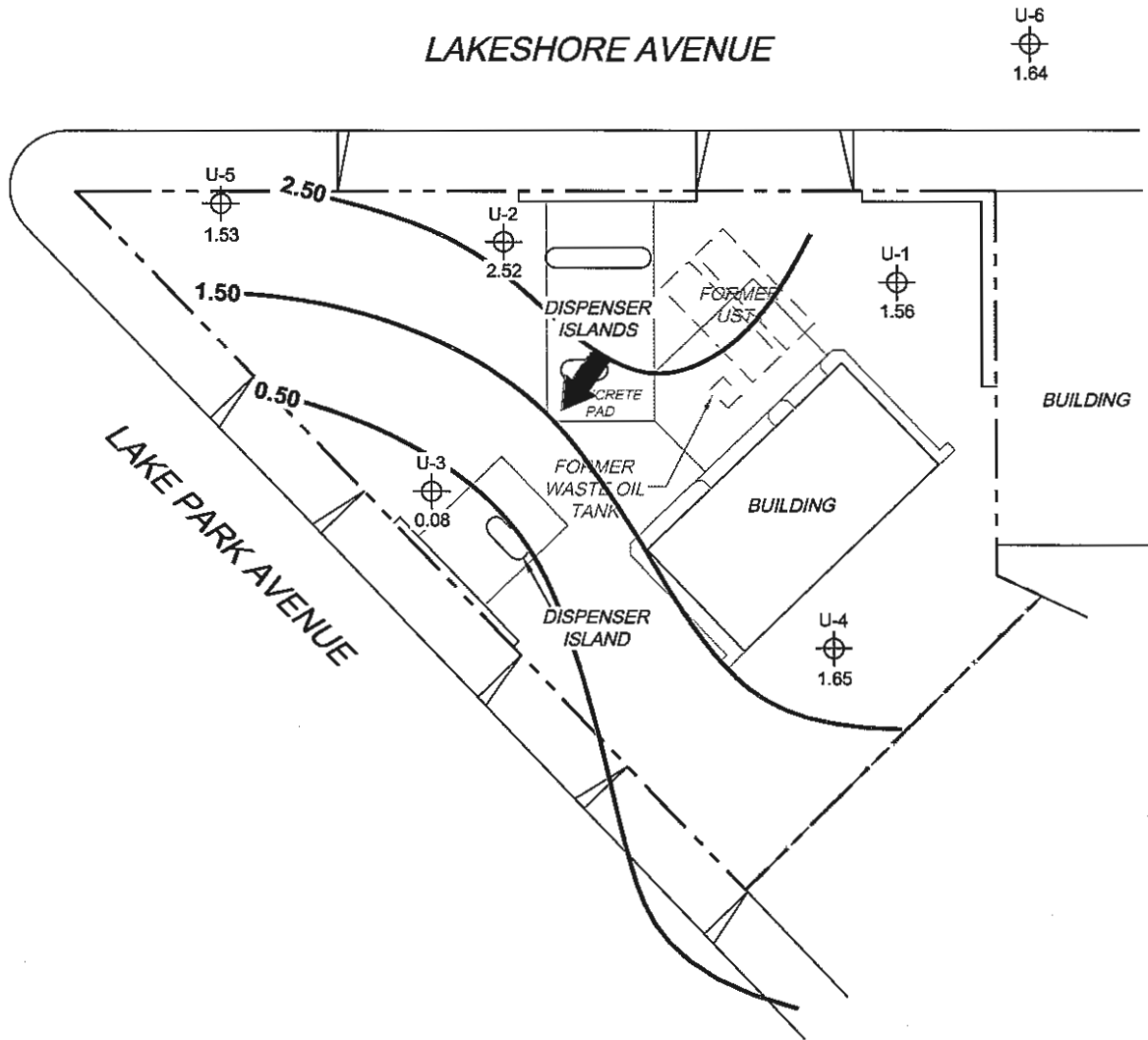
FIGURE 2

LEGEND

U-6  Monitoring Well with Groundwater Elevation (feet)

2.50  Groundwater Elevation Contour

 General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

SCALE (FEET)



L:\Graphics\CIMS NORTH-SOUTH\k-5000\5325\5325\5325\CIMS(NEW).DWG Oct 16, 2008 - 8:50am bschmidt

MS=1:40 5325-003





PROJECT: 154771
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA


**GROUNDWATER ELEVATION
 CONTOUR MAP
 September 24, 2008**

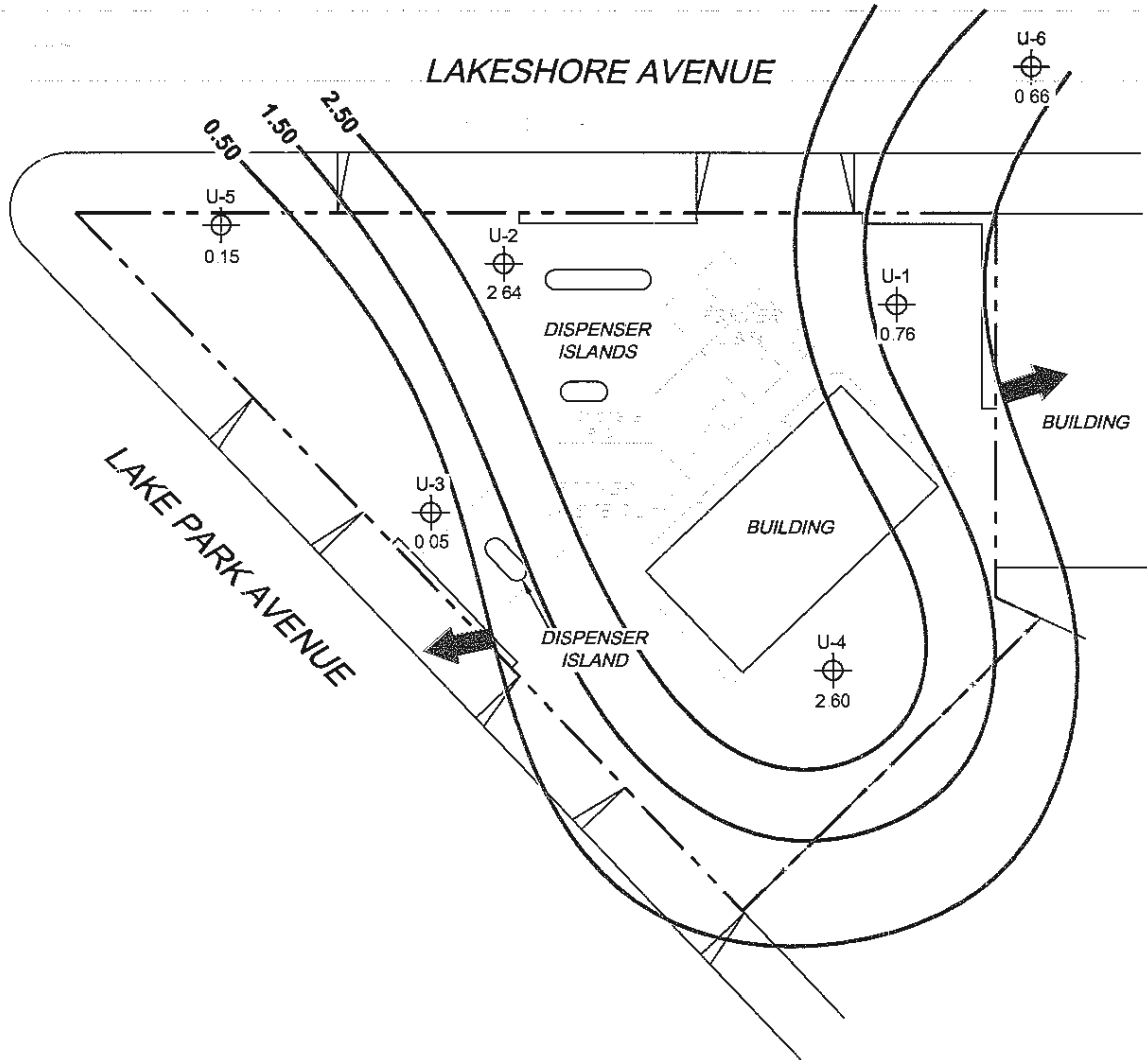
FIGURE 2

LEGEND

U-6  Monitoring Well with Groundwater Elevation (feet)

2.50  Groundwater Elevation Contour

 General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

SCALE (FEET)



L:\Graphics\QMS NORTH\SCOUTH\5000\5325\5325\QMS(NEW)\DWG Jan 15, 2009 - 1:12pm aakers

MS=1:40 5325-003





PROJECT: 154771
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND CALIFORNIA


**GROUNDWATER ELEVATION
 CONTOUR MAP
 December 22, 2008**

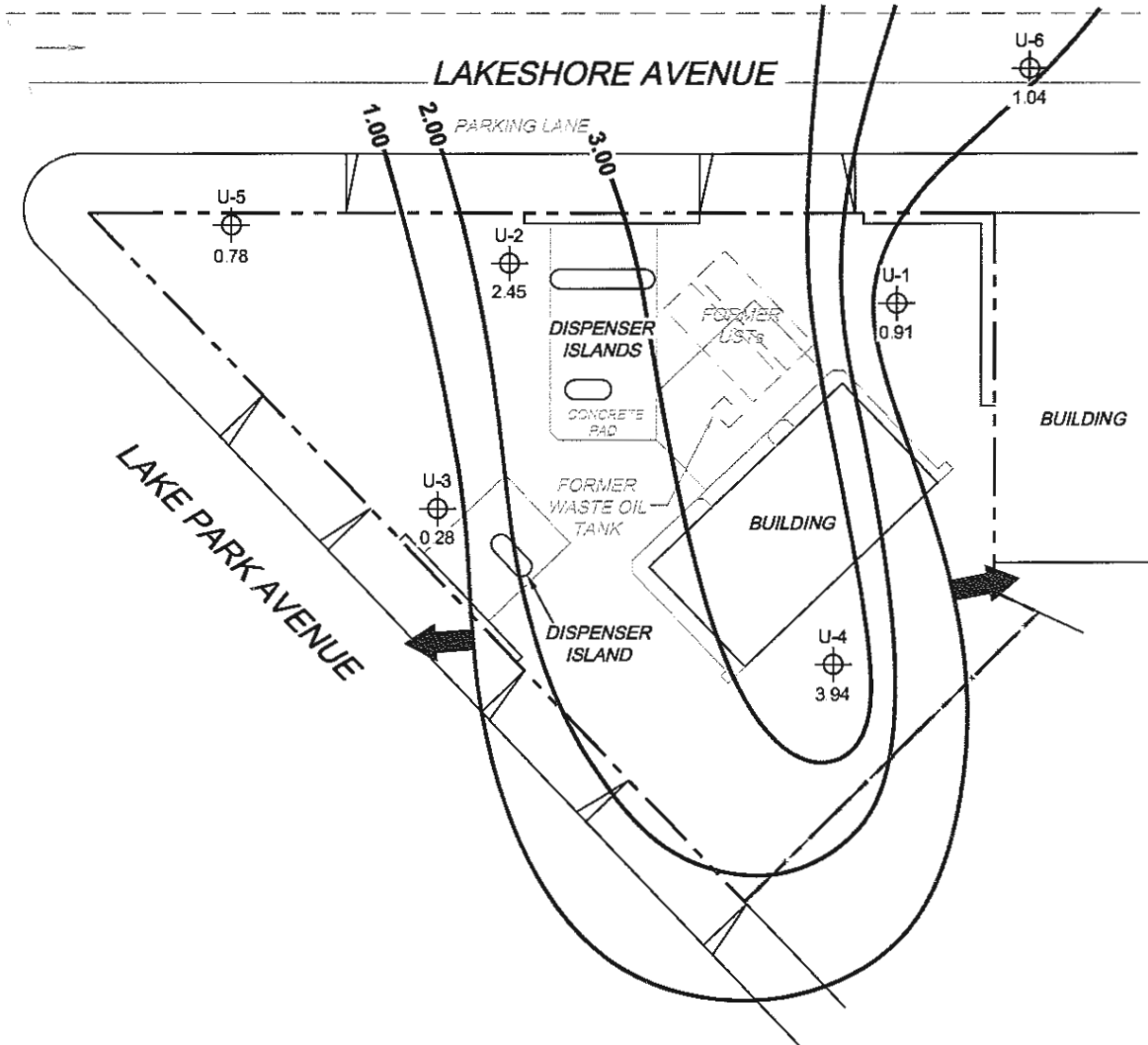
FIGURE 2

LEGEND

U-6  Monitoring Well with Groundwater Elevation (feet)

3.00  Groundwater Elevation Contour

 General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

SCALE (FEET)



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MS=1:40 5325-003





PROJECT: 165521
 FACILITY:
 76 STATION 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA


**GROUNDWATER ELEVATION
 CONTOUR MAP
 March 26, 2009**

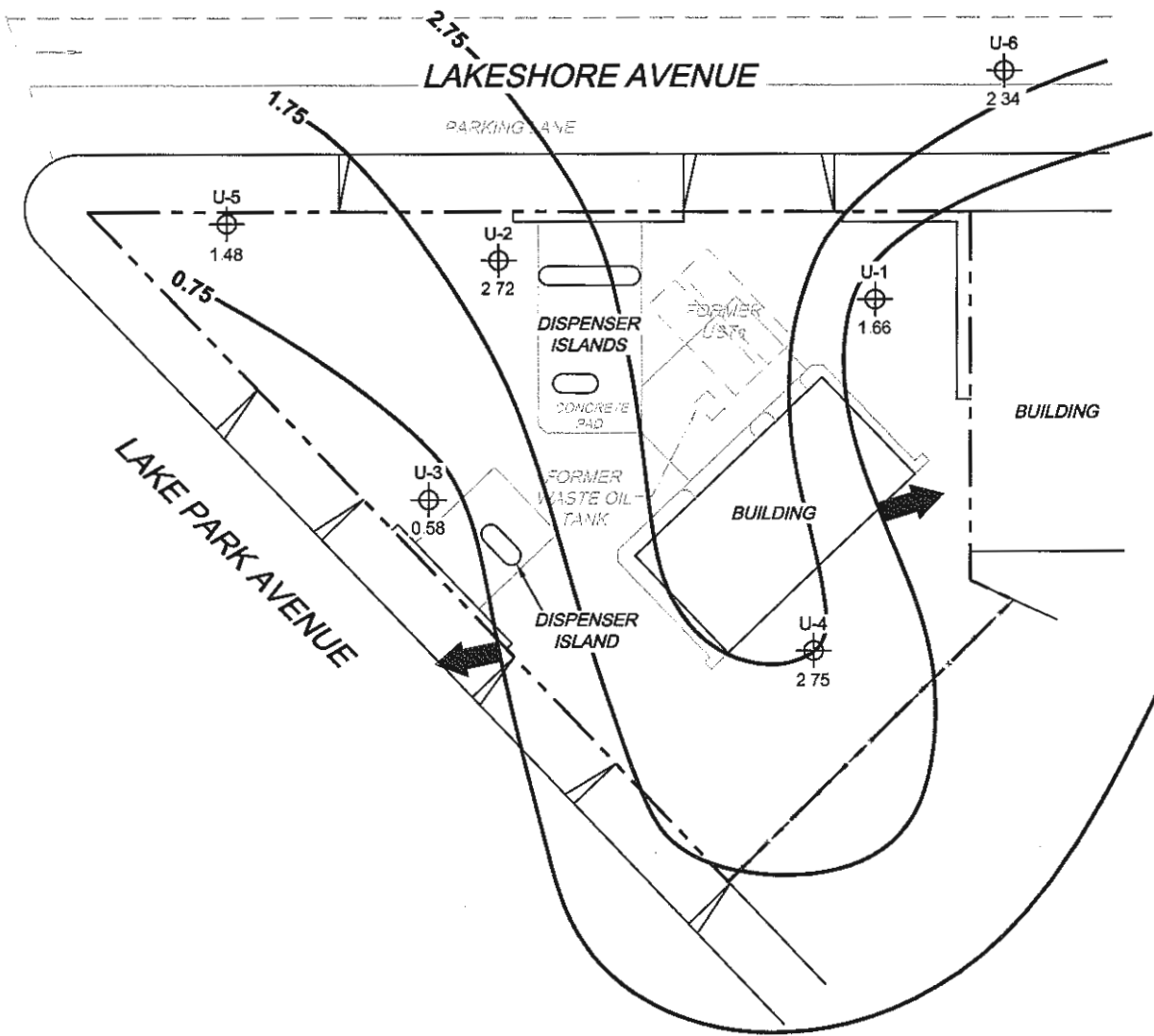
FIGURE 2

LEGEND

U-6  Monitoring Well with Groundwater Elevation (feet)

2.75  Groundwater Elevation Contour

 General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank

SCALE (FEET)



L:\Graphics\GIS\MS-NORTH-SOUTH\5325-5000\5325-5325-QMS(NEW).DWG Jul 15, 2009 - 8:47am bschmidt

MS-140 5325-003

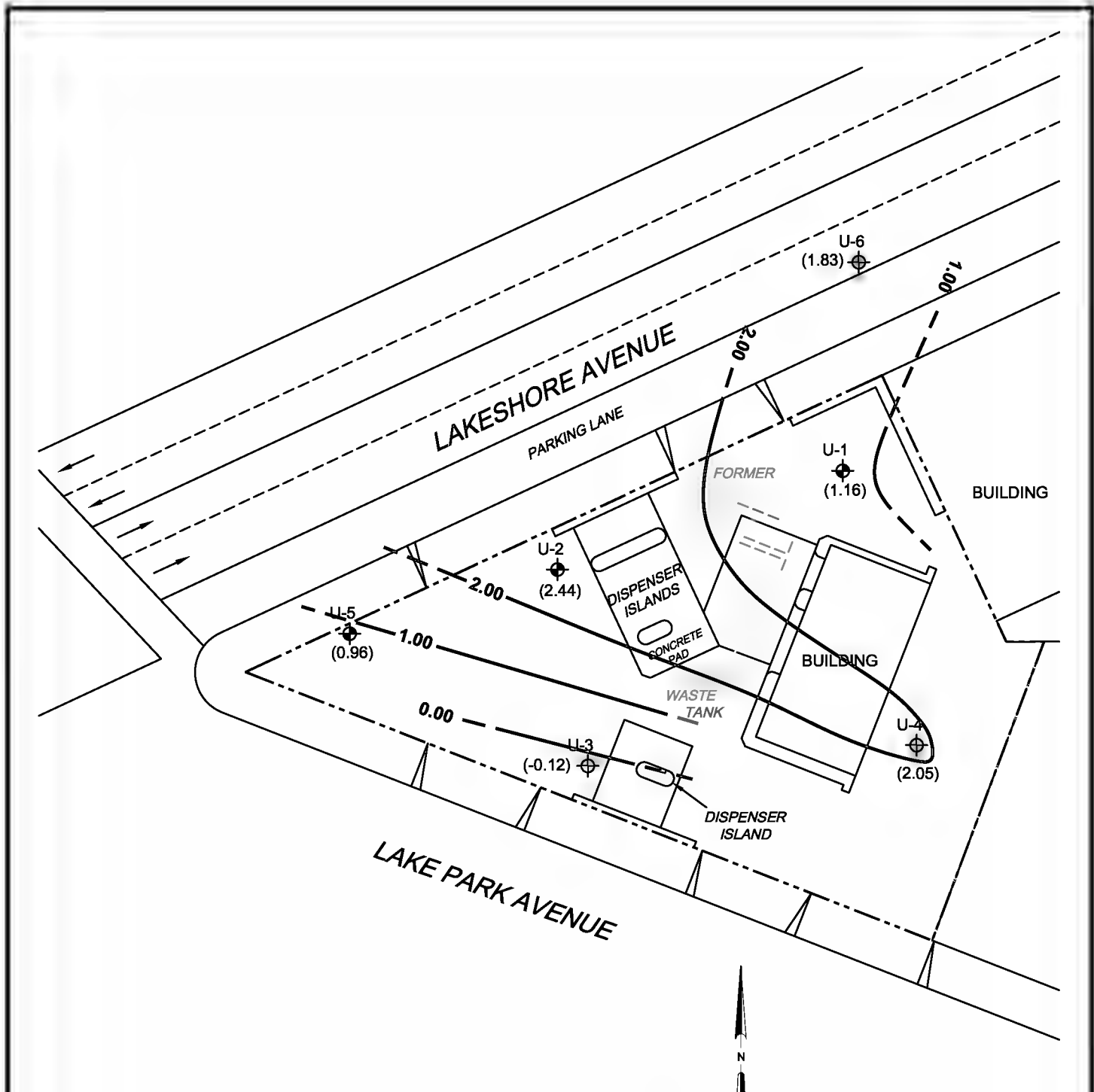


PROJECT: 165521

FACILITY:
76 STATION 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
CONTOUR MAP**
June 23, 2009

FIGURE 2



EXPLANATION

- U-6 GROUNDWATER MONITORING WELL LOCATION
- (2.05) GROUNDWATER ELEVATION IN FEET ABOVE SEA LEVEL
- 3.00 GROUNDWATER CONTOUR LINE IN FEET ABOVE SEA LEVEL; DASHED WHERE INFERRED (CONTOUR INTERVAL: 1.00 FT)
- GENERAL DIRECTION OF GROUNDWATER FLOW

REFERENCE: TRC

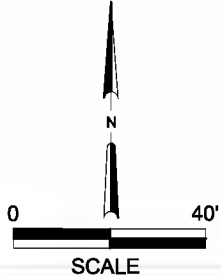
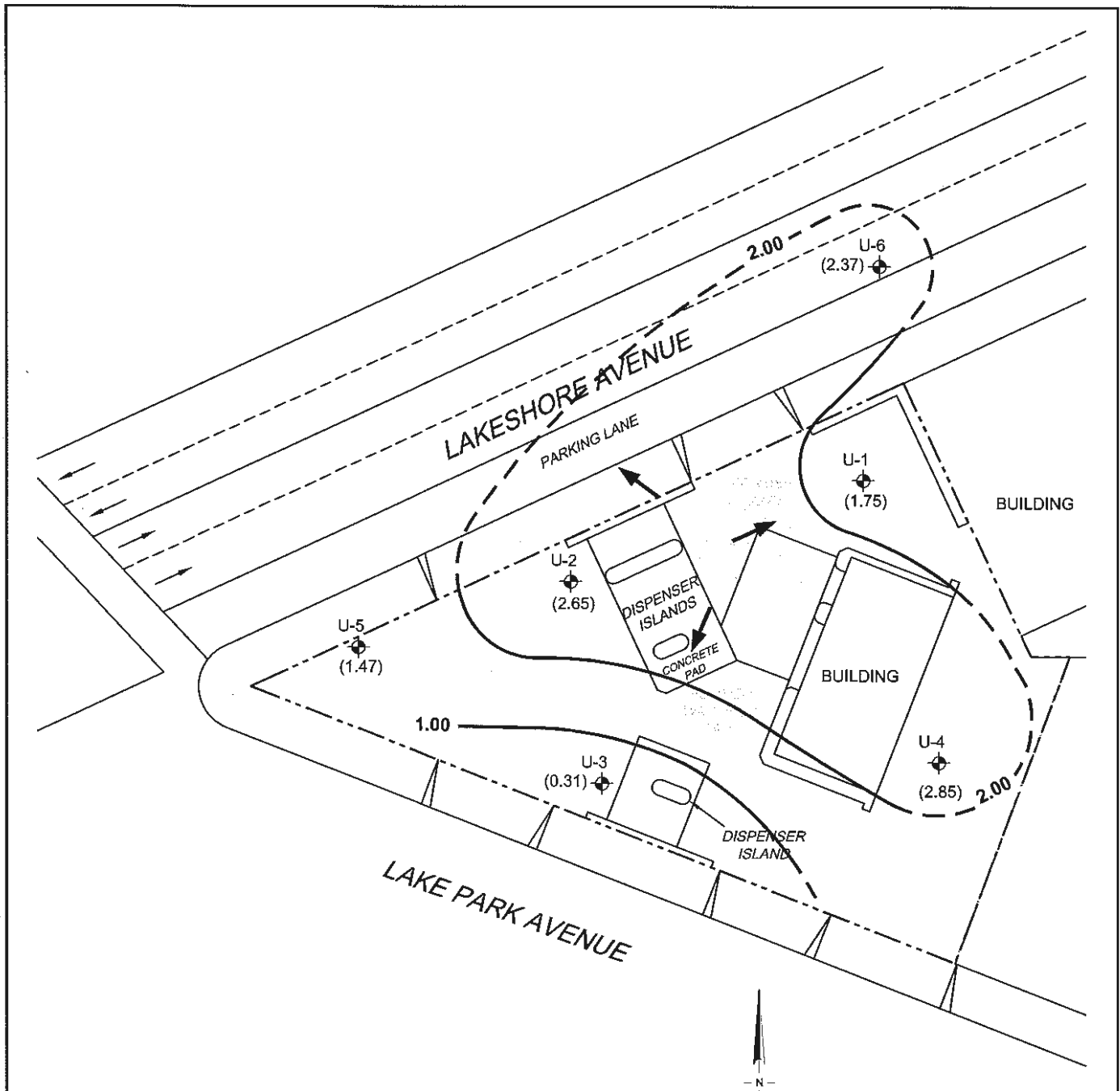


FIGURE 3
GROUNDWATER ELEVATION
CONTOUR MAP - DECEMBER 3, 2009
 76 STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA




PROJECT NO. 140255325	DRAWN BY K. MARTIN
FILE NO. 5325-SM	PREPARED BY J. FILLINGAME
DATE 30 DEC 09	REV. 0 REVIEWED BY



LAYER: 4Q09-GW



EXPLANATION

- U-6  GROUNDWATER MONITORING WELL LOCATION
- (2.65) GROUNDWATER ELEVATION IN FEET ABOVE SEA LEVEL
- 2.00  GROUNDWATER CONTOUR LINE IN FEET ABOVE SEA LEVEL; DASHED WHERE INFERRED (CONTOUR INTERVAL: 1.00 FT)
-  GENERAL DIRECTION OF GROUNDWATER FLOW

REFERENCE: TRC

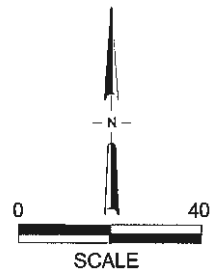

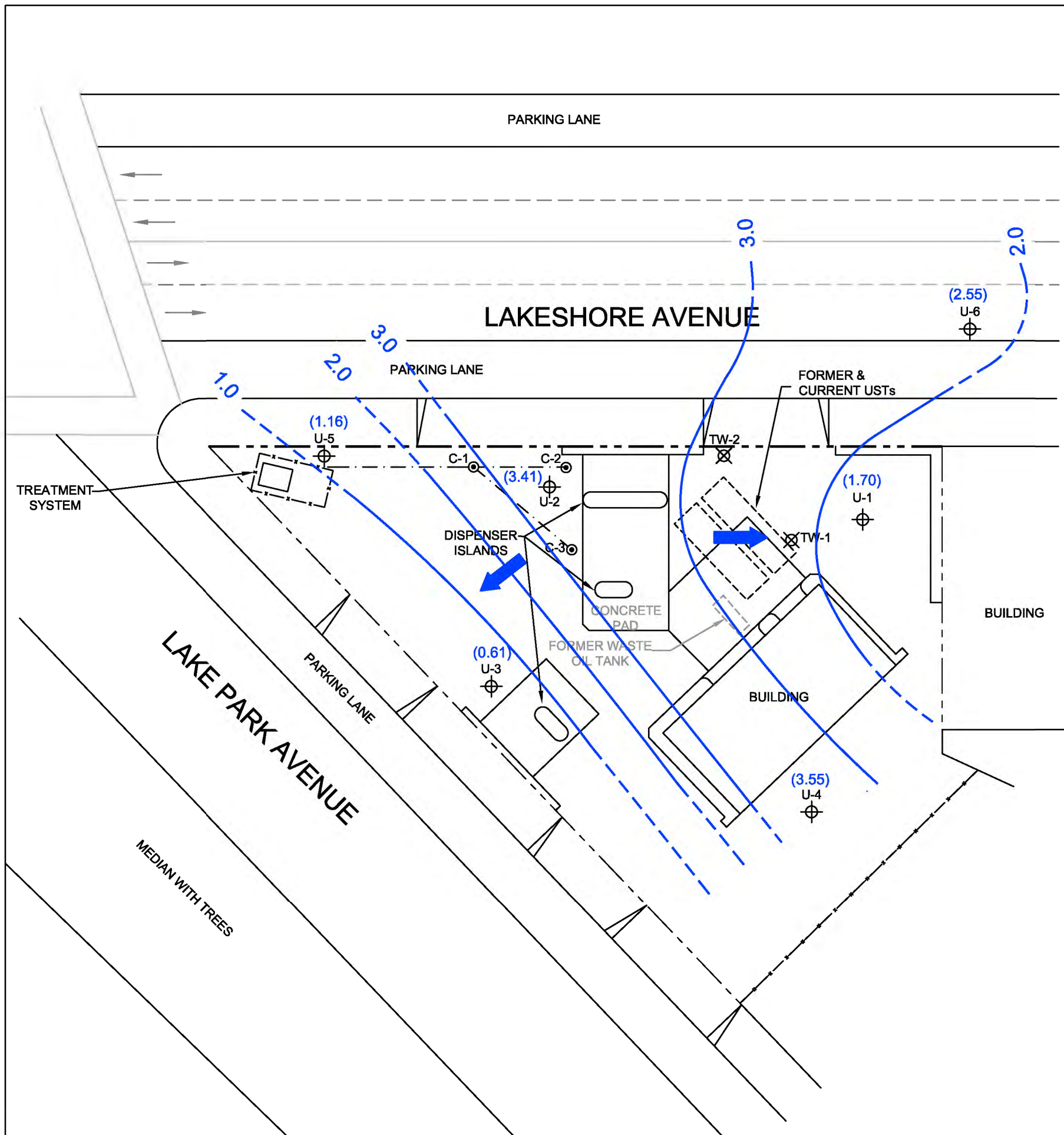


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 28, 2010
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	DRAWN BY KM/JH
FILE NO. 5325-SM	PREPARED BY J. FILLINGAME
DATE 19 JUL 10	REV. 0
	REVIEWED BY





- LEGEND**
- U-6 MONITORING WELL
 - TW-1 TANK CAVITY WELL
 - C-1 SPARGE POINT
 - PROPERTY BOUNDARY
 - - - TRENCHING
 - · - · - FENCE
 - (1.16) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
 - 1.0 - - - GROUNDWATER CONTOUR (ft/msl) -DASHED WHERE INFERRERD
 - GENERAL GROUNDWATER FLOW DIRECTION

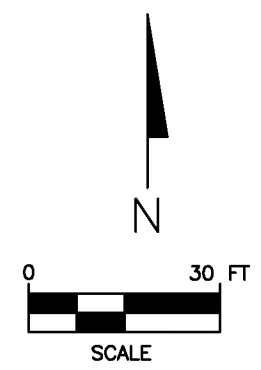
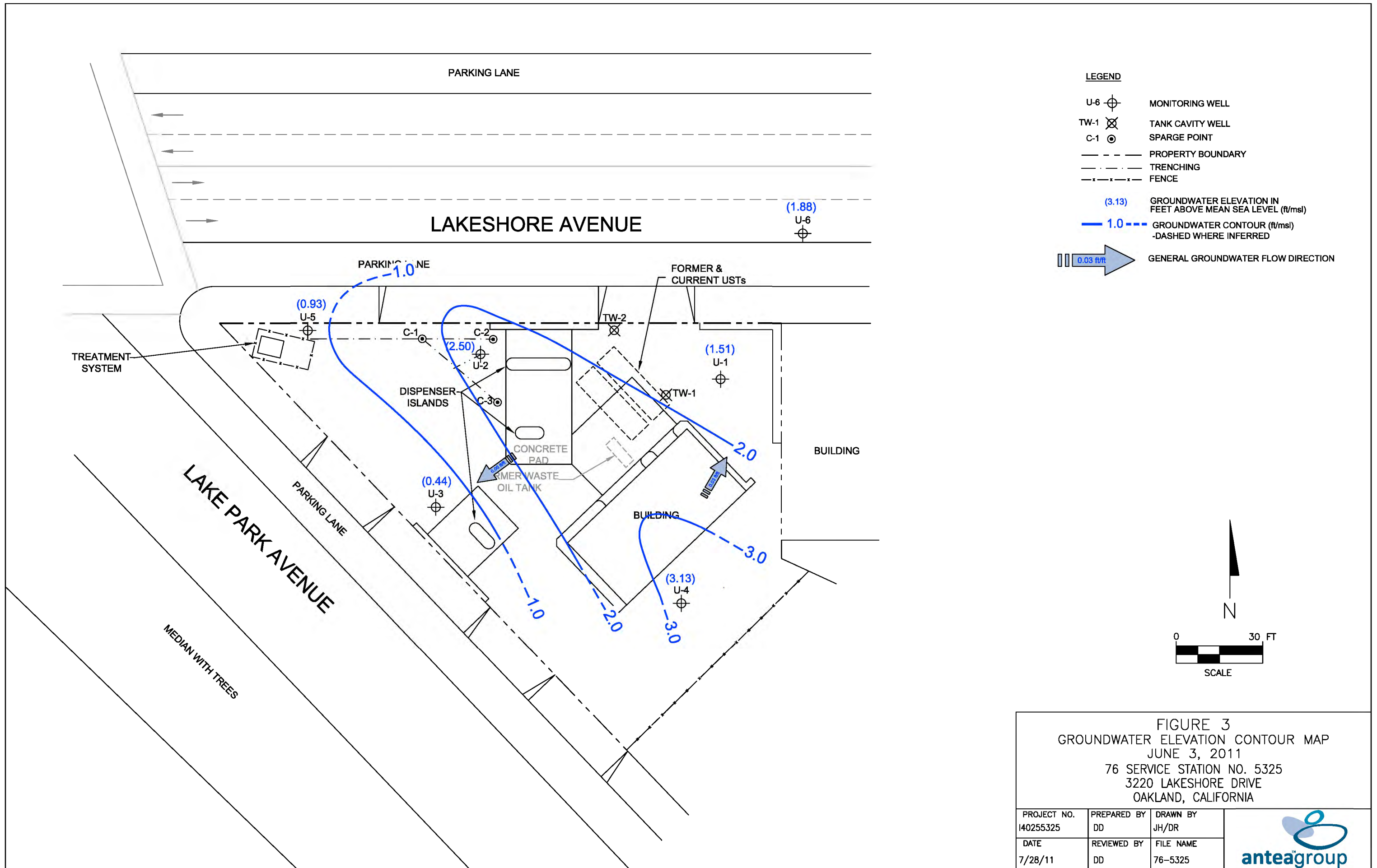
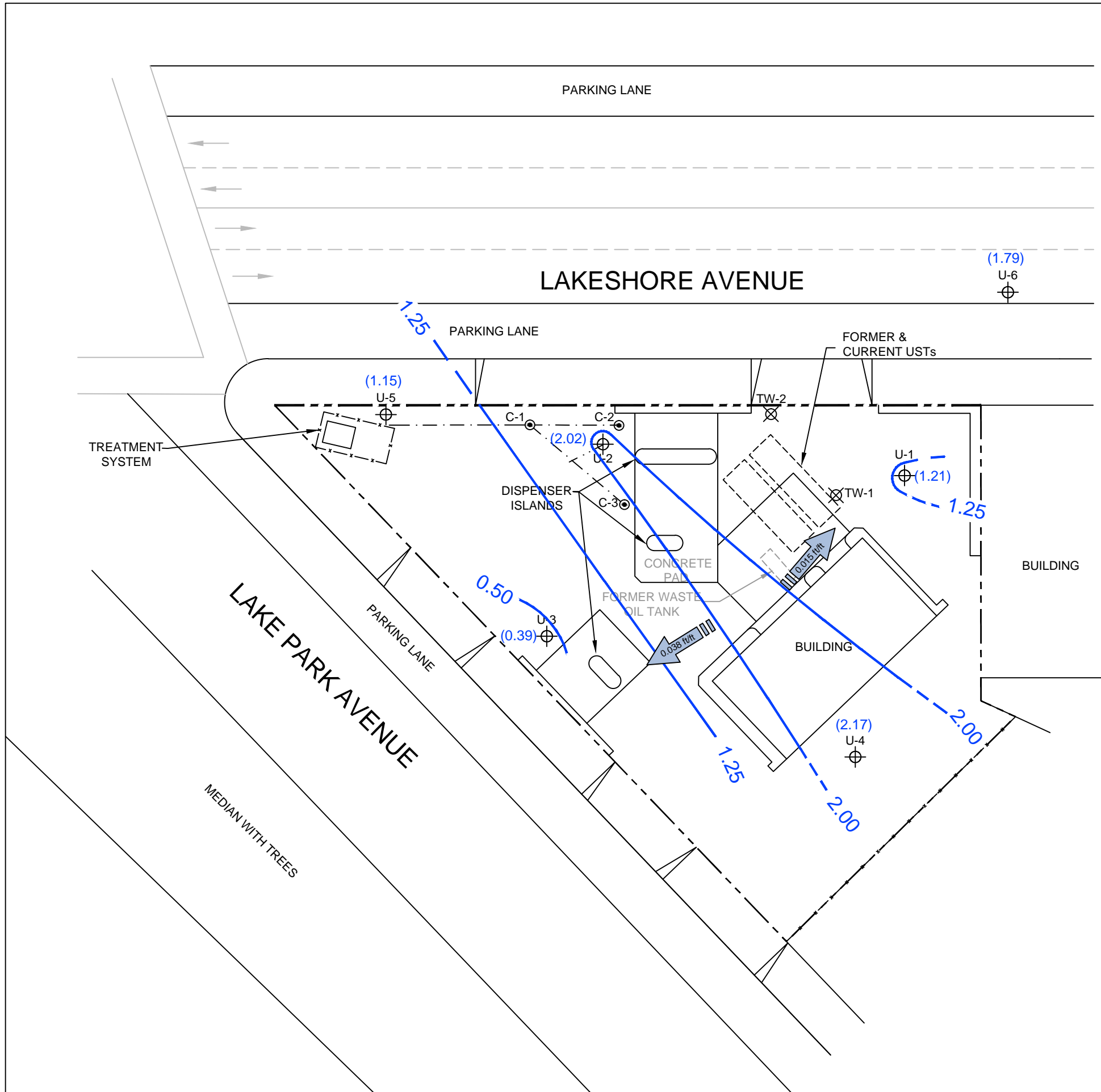


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 DECEMBER 20, 2010
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY DD	DRAWN BY JH	
DATE 01/28/11	REVIEWED BY DD	FILE NAME 76-5325	





LEGEND

- U-6 MONITORING WELL
- TW-1 TANK CAVITY WELL
- C-1 SPARGE POINT
- - - - - PROPERTY BOUNDARY
- . - . - TRENCHING
- x - x - FENCE
- (1.21) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- 1.25 — GROUNDWATER CONTOUR (ft/msl)
- DASHED WHERE INFERRED
(CONTOUR INTERVAL = 0.75 ft)
- 0.038 ft/ft GENERAL GROUNDWATER FLOW DIRECTION WITH HYDRAULIC GRADIENT

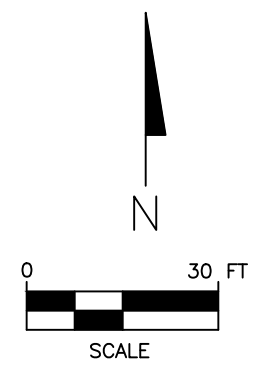

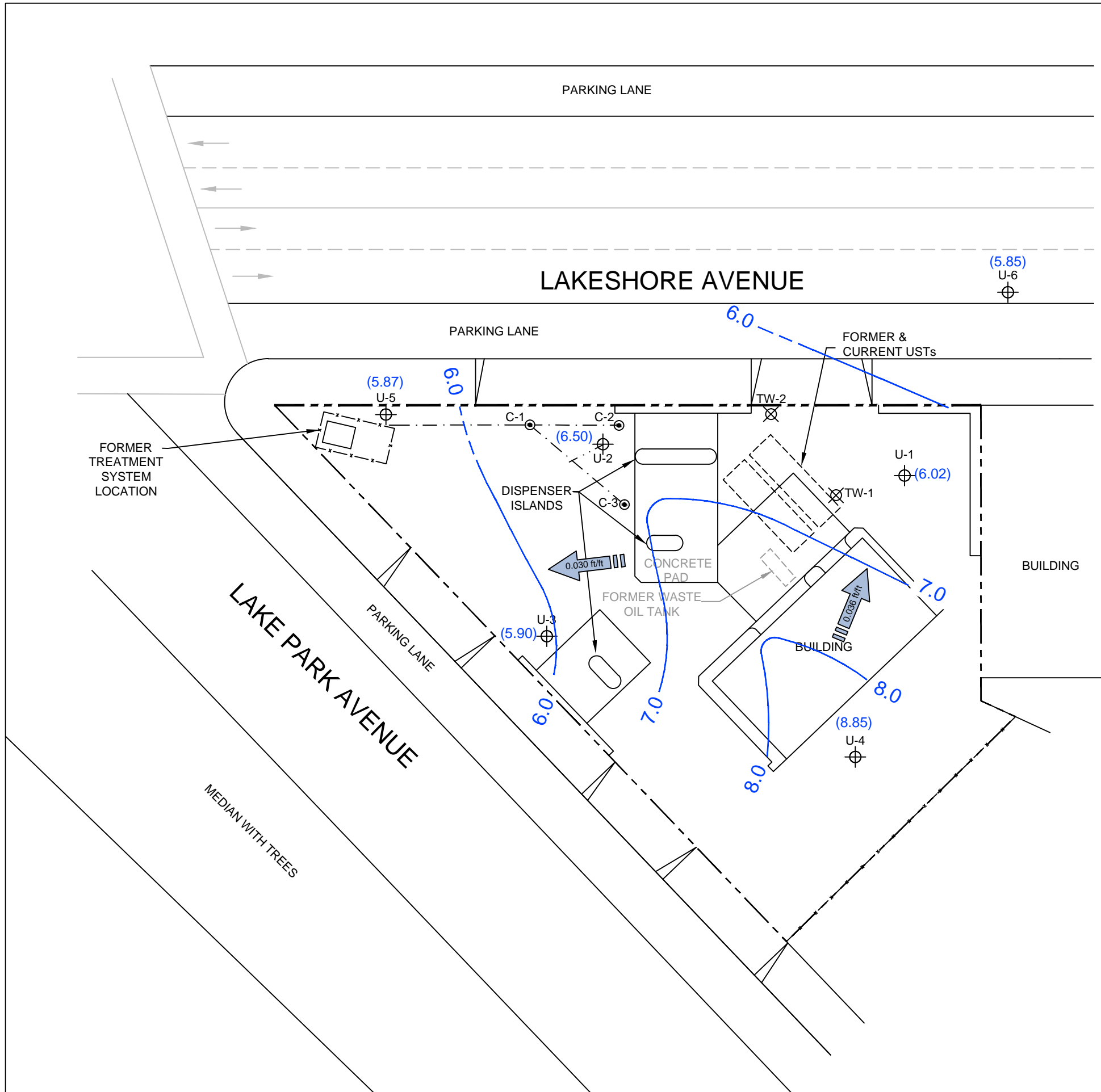


FIGURE 3
 GROUNDWATER ELEVATION CONTOUR MAP
 DECEMBER 5, 2011
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 12/29/11	REVIEWED BY DD	FILE NAME 76-5325





LEGEND

- U-6 MONITORING WELL
- TW-1 TANK CAVITY WELL
- C-1 SPARGE POINT
- PROPERTY BOUNDARY
- - - TRENCHING
- x-x-x- FENCE
- (6.02) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- 6.0 — GROUNDWATER CONTOUR (ft/msl)
-DASHED WHERE INFERRED (CONTOUR INTERVAL = 1.0 ft)
- 0.036 ft/ft GENERAL GROUNDWATER FLOW DIRECTION WITH HYDRAULIC GRADIENT

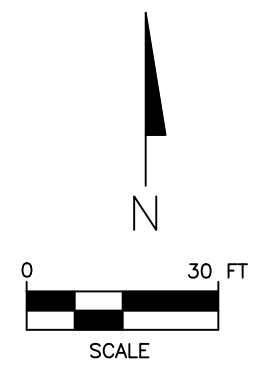


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 6, 2012
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH	
DATE 7/20/12	REVIEWED BY DD	FILE NAME 76-5325	

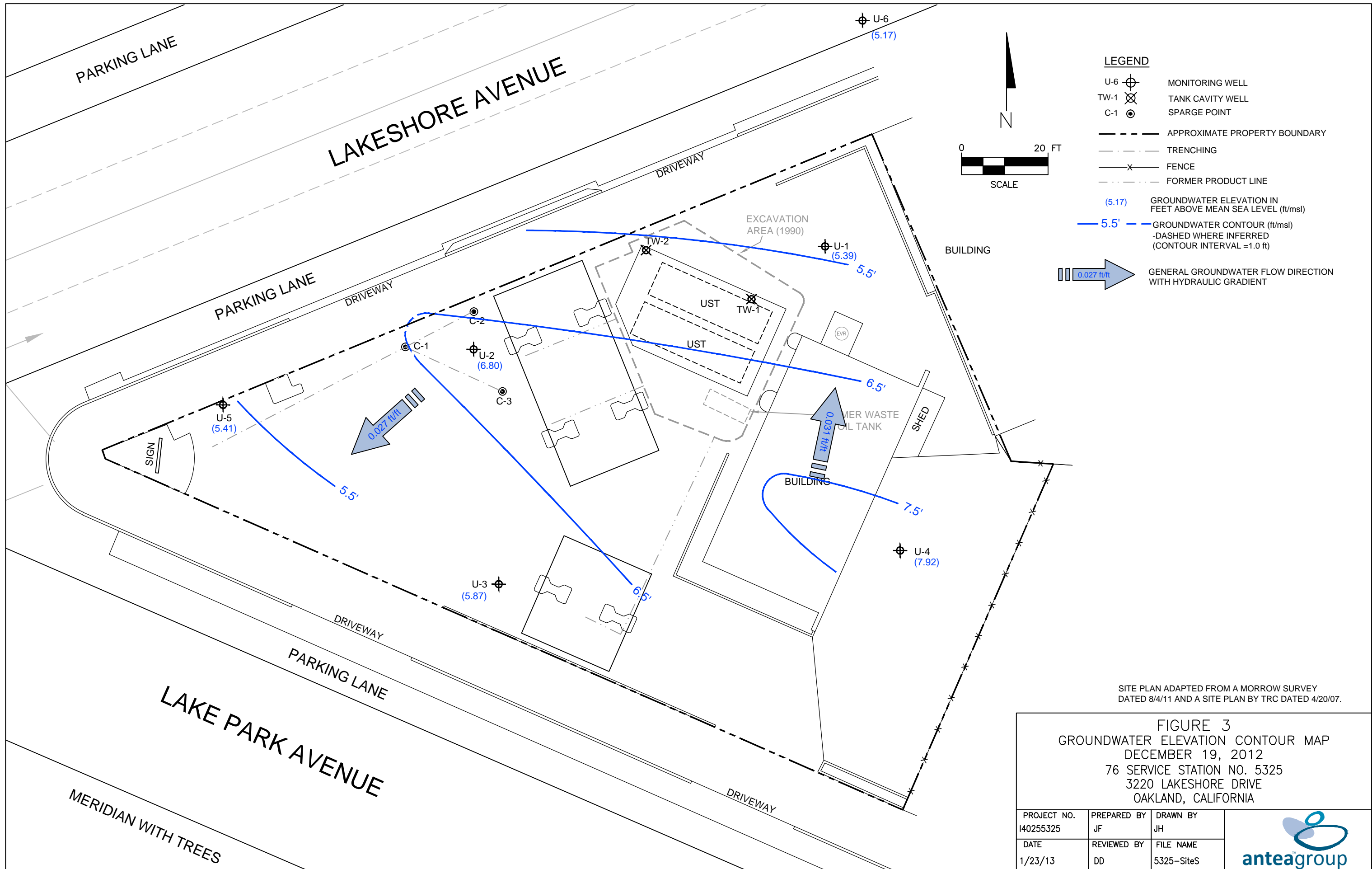
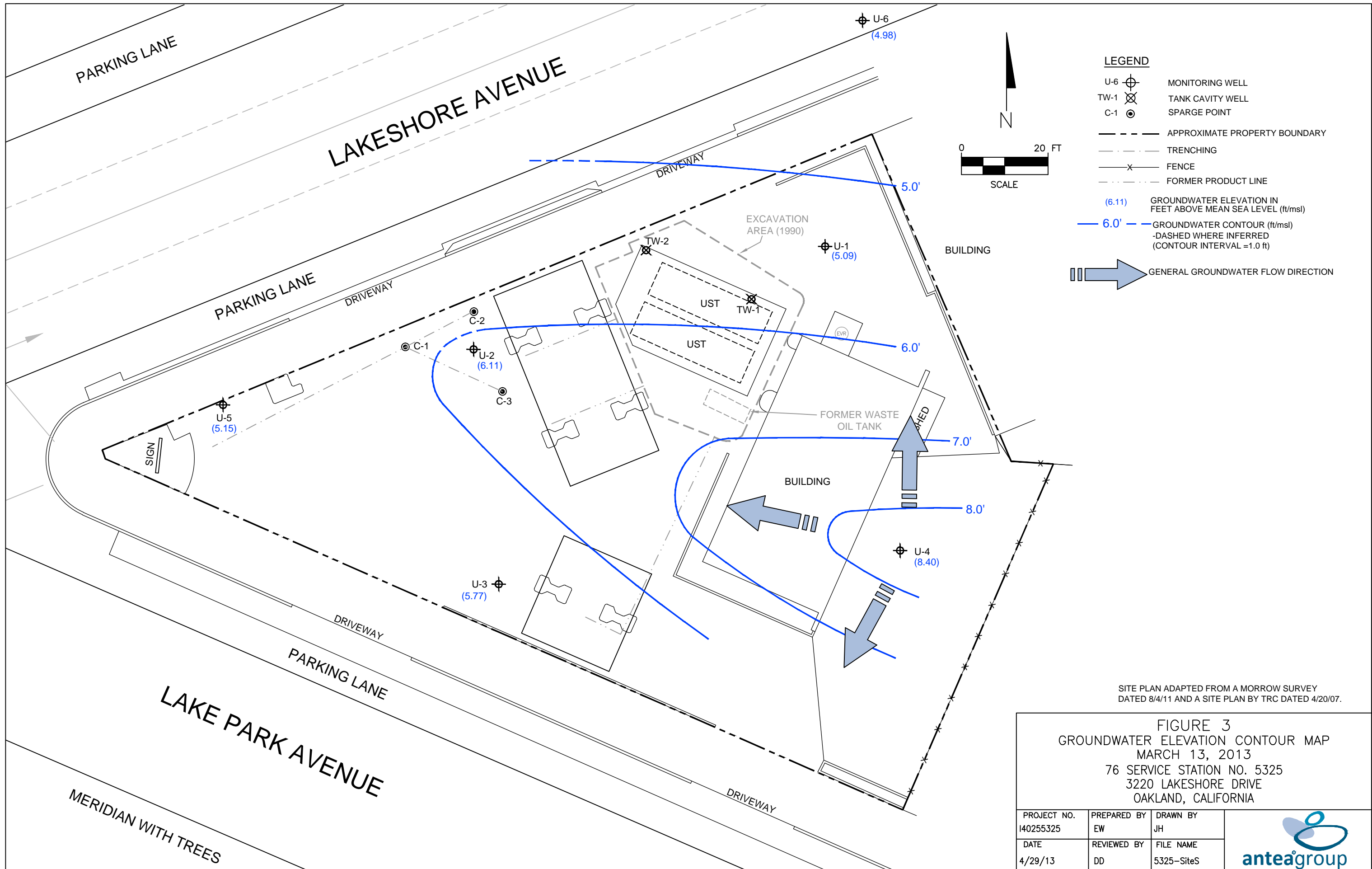


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 DECEMBER 19, 2012
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 1/23/13	REVIEWED BY DD	FILE NAME 5325-SiteS



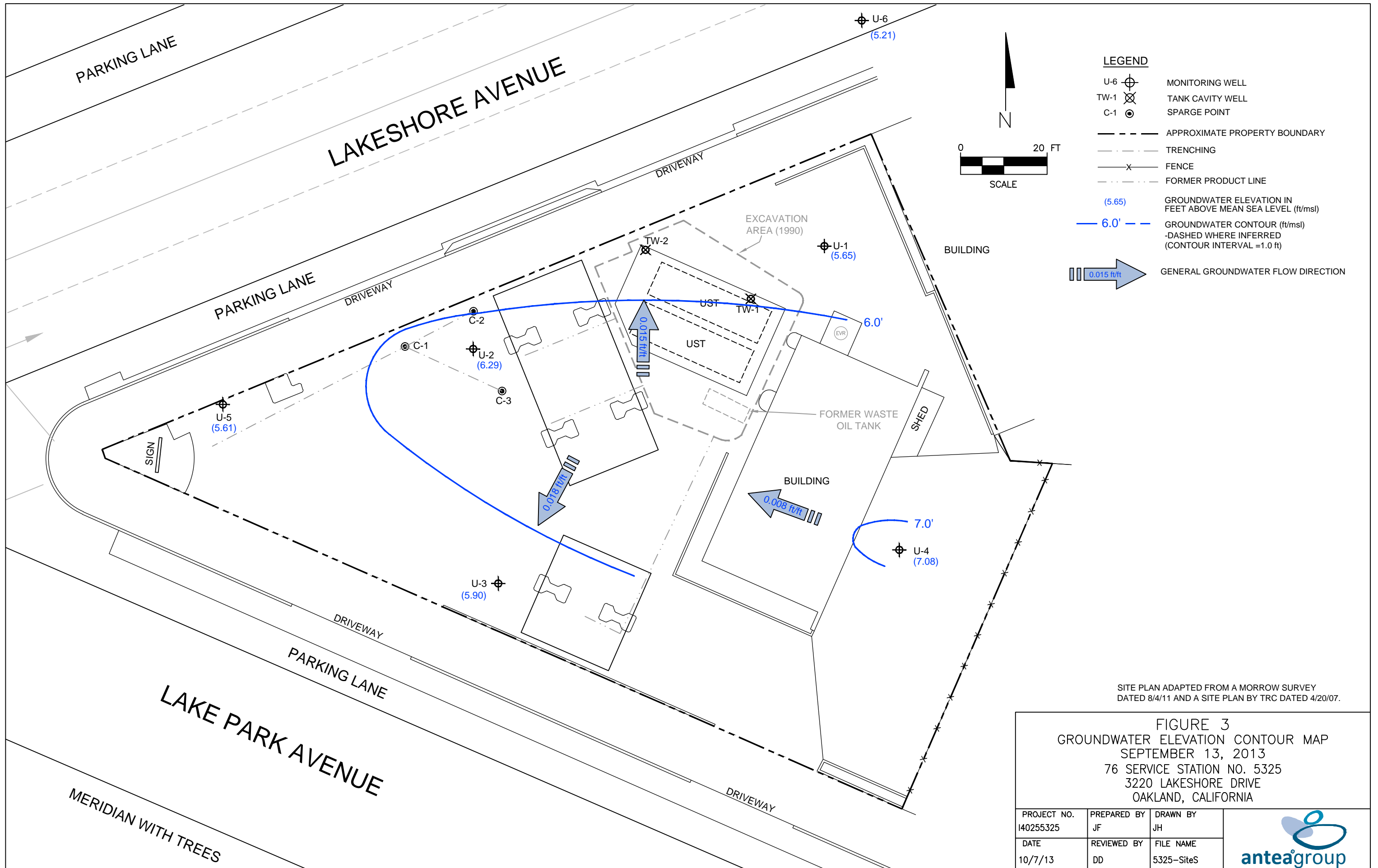


SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 MARCH 13, 2013
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY EW	DRAWN BY JH
DATE 4/29/13	REVIEWED BY DD	FILE NAME 5325-SiteS





SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 SEPTEMBER 13, 2013
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

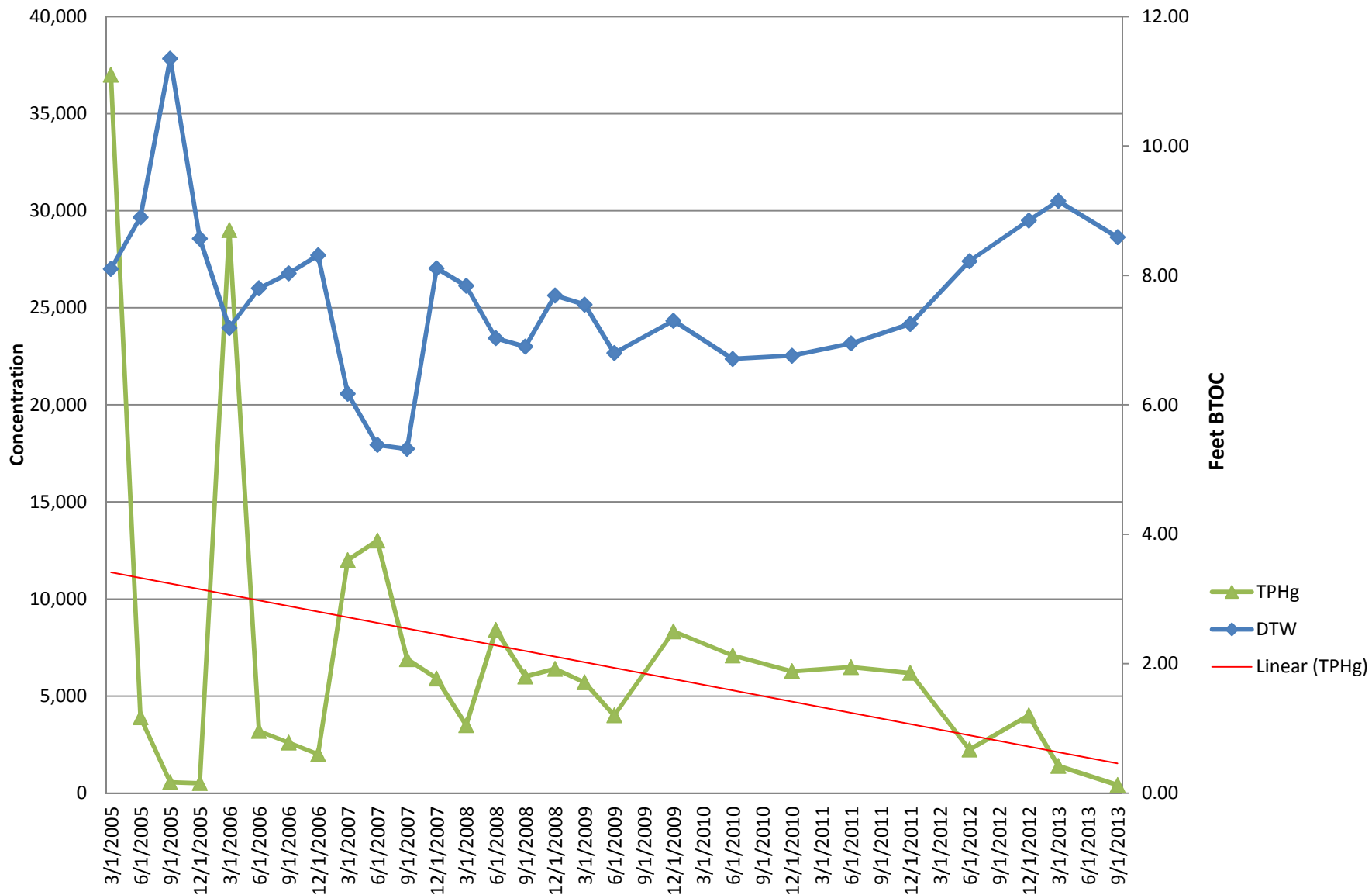
PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 10/7/13	REVIEWED BY DD	FILE NAME 5325-SiteS



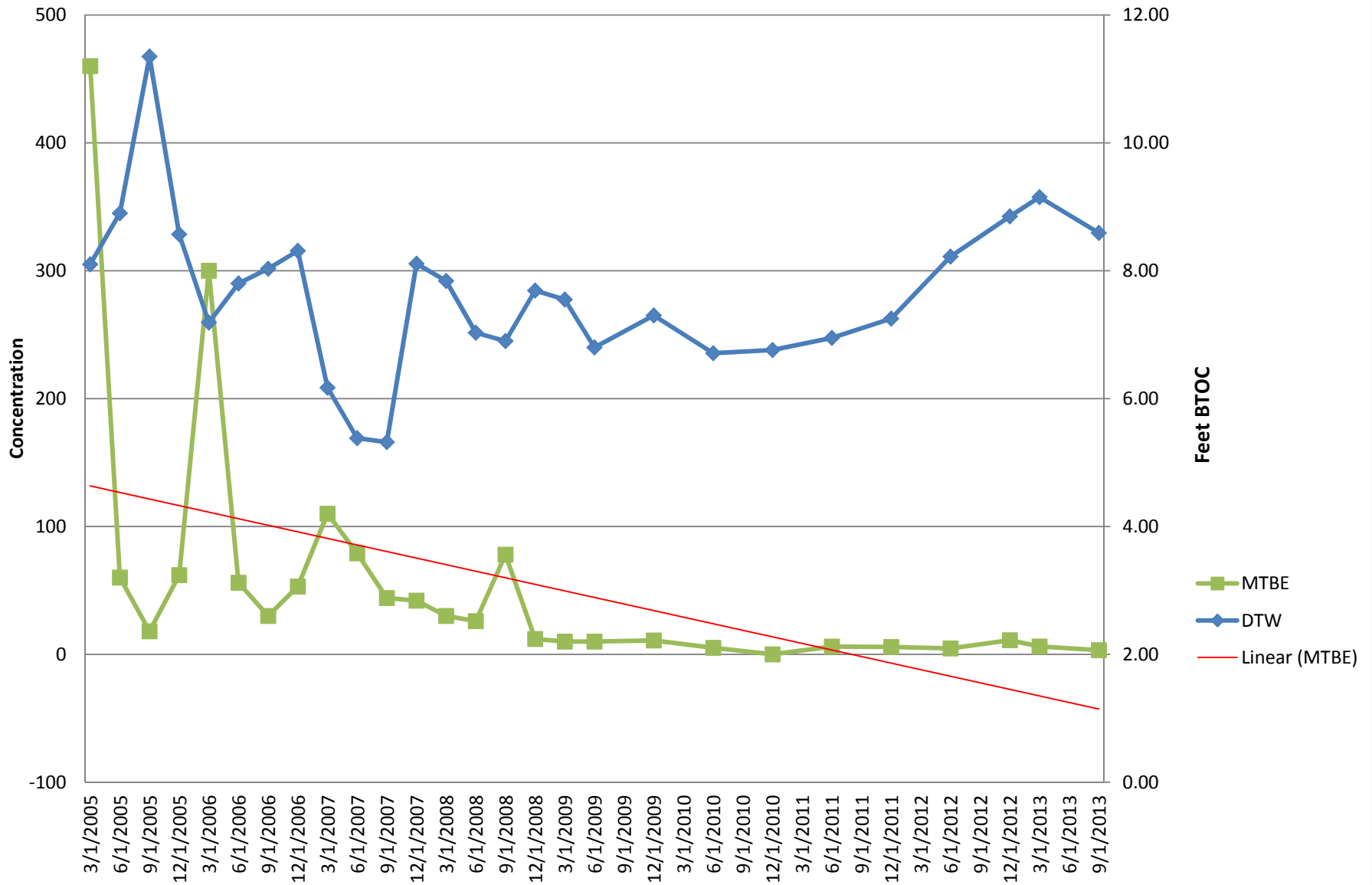
Appendix D

Concentration Trend Graphs

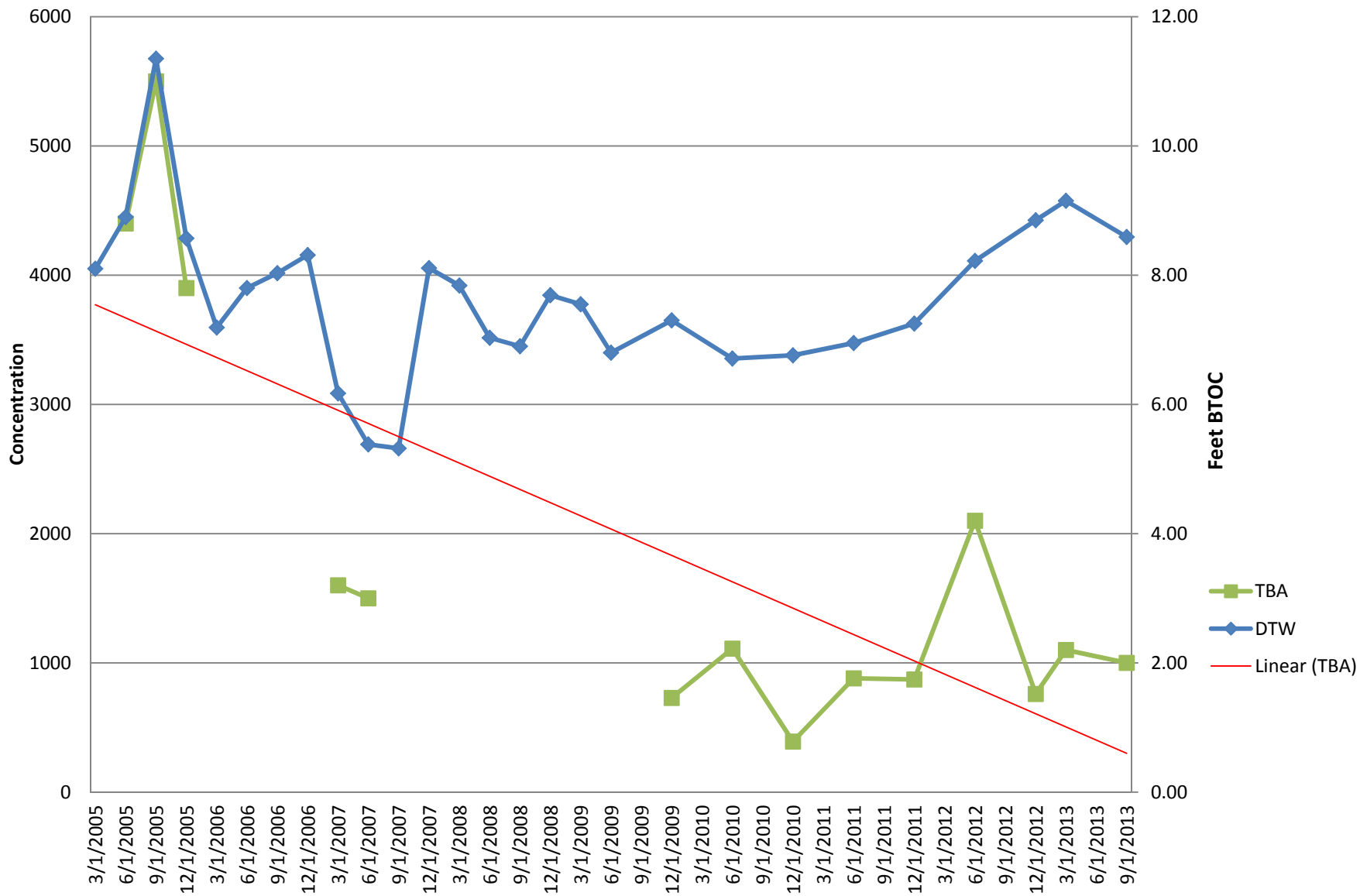
U-1 TPHg and DTW



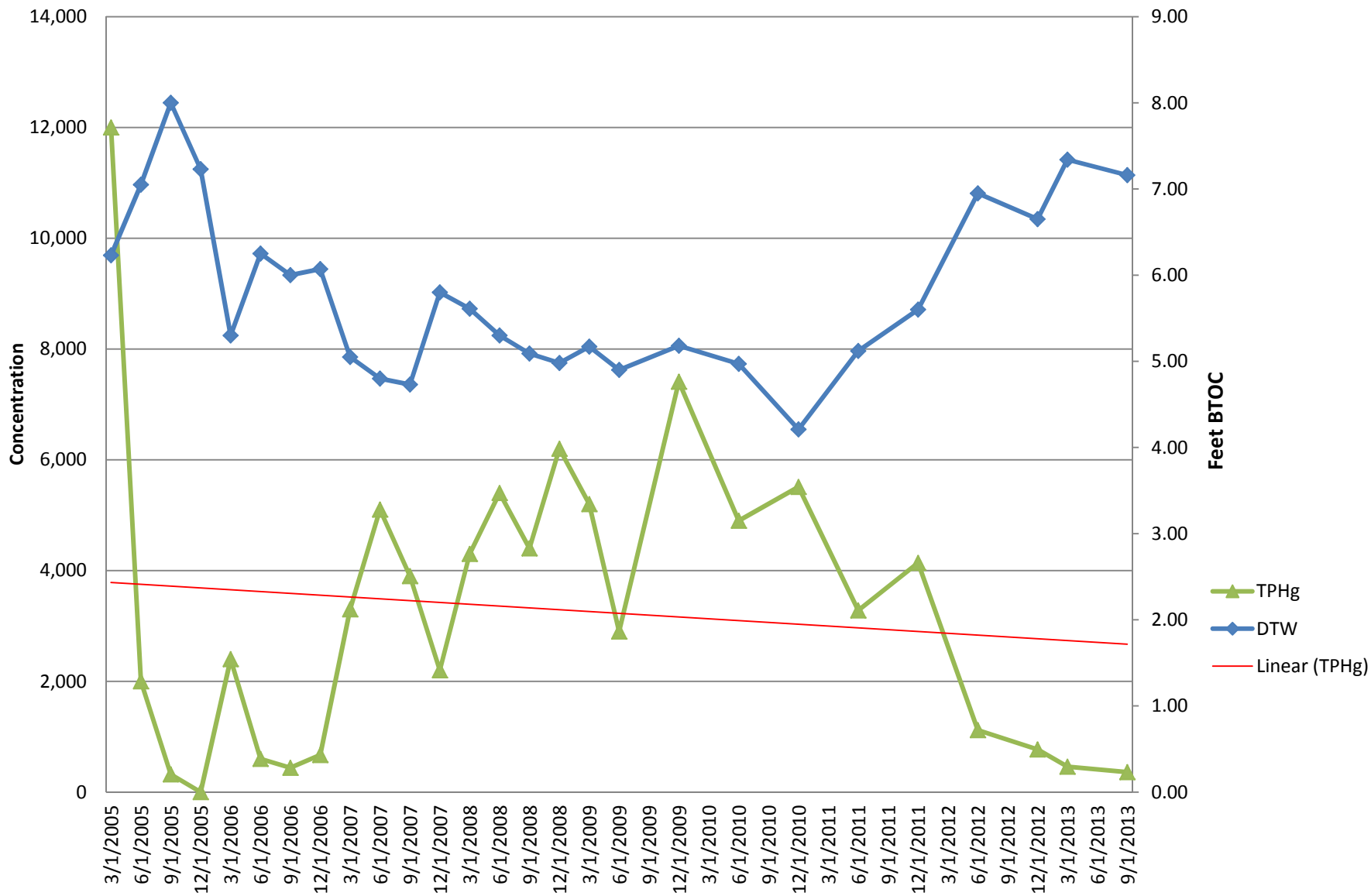
U-1 MTBE and DTW



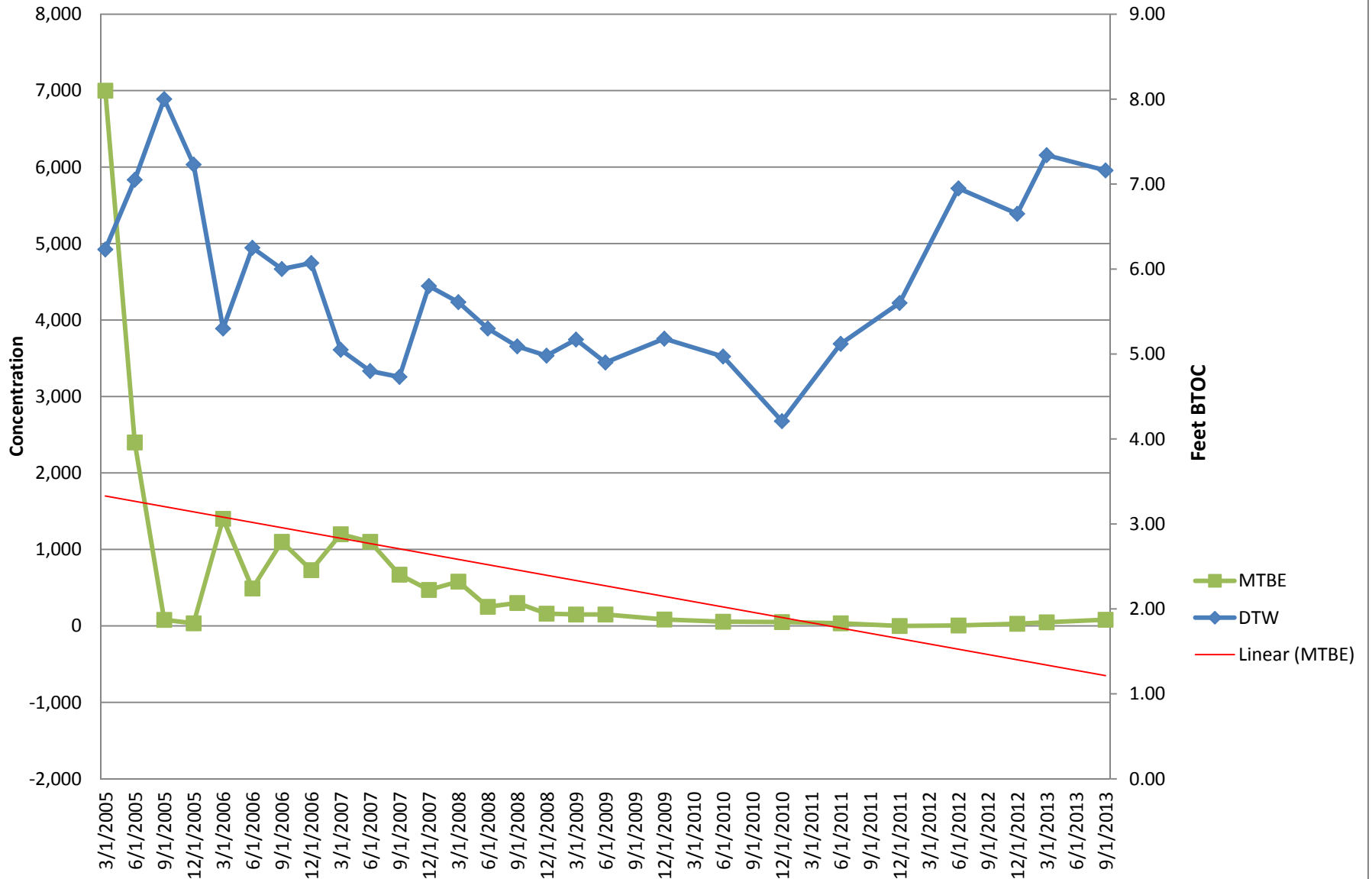
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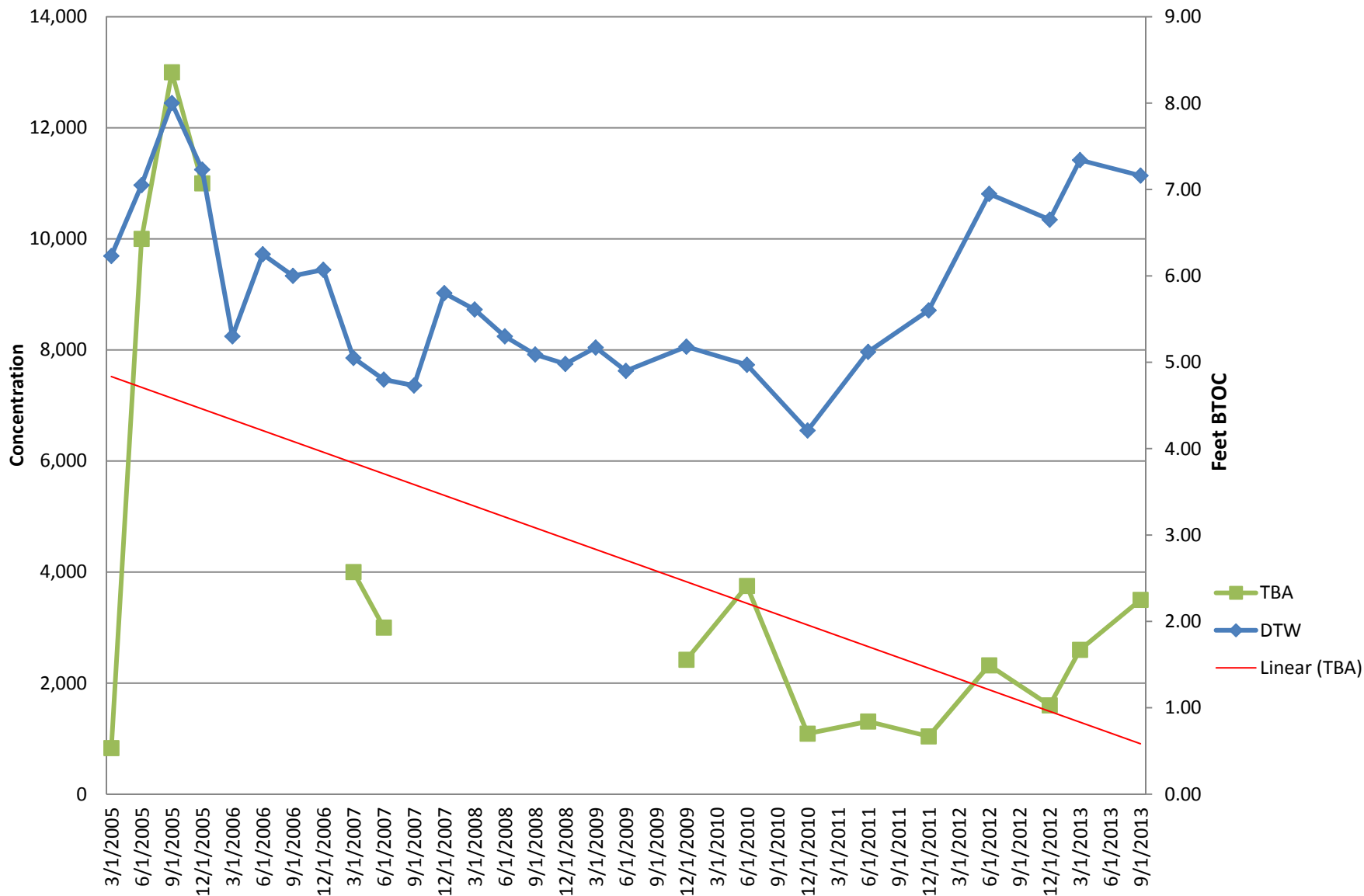
U-2 TPHg and DTW



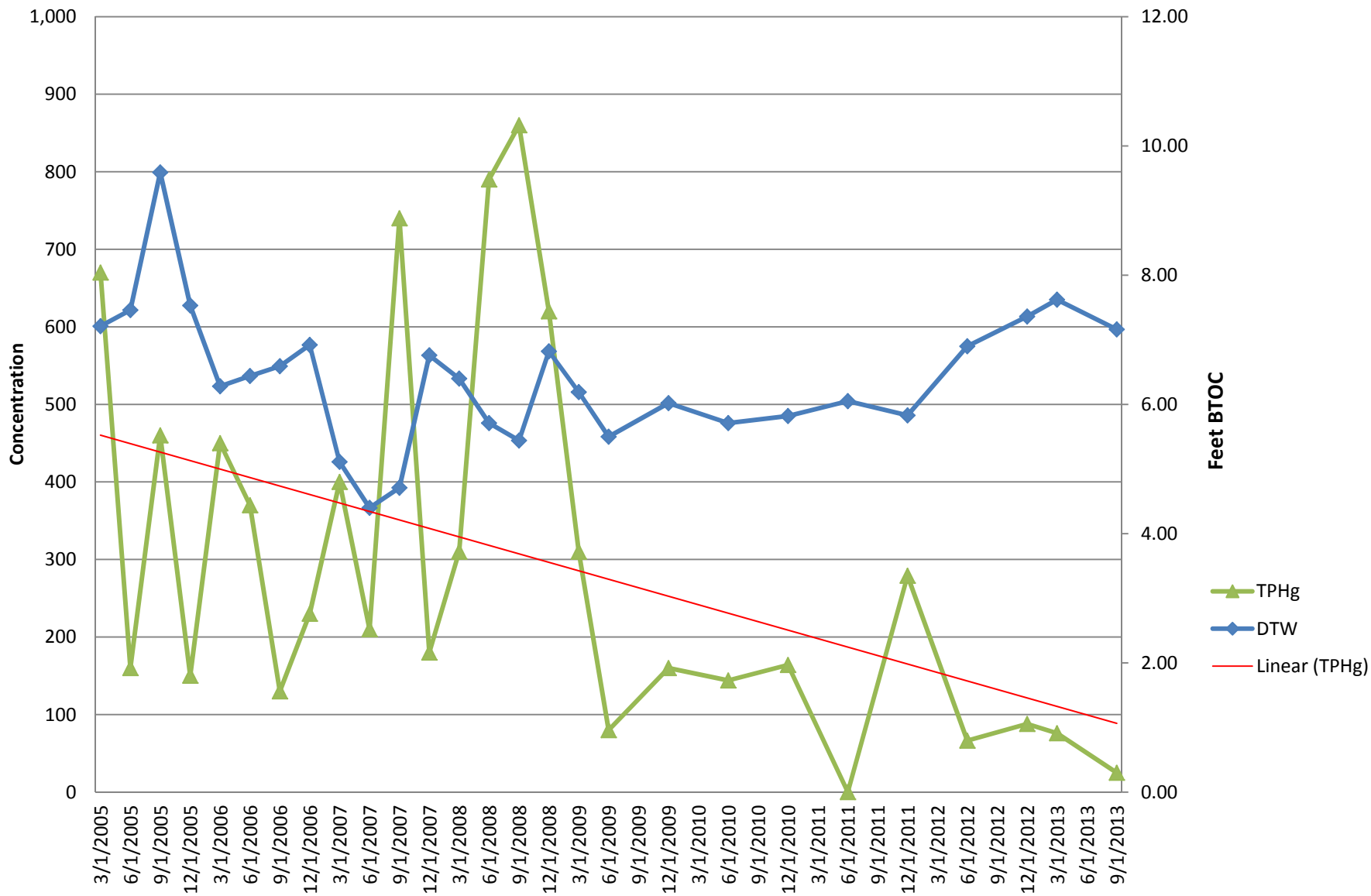
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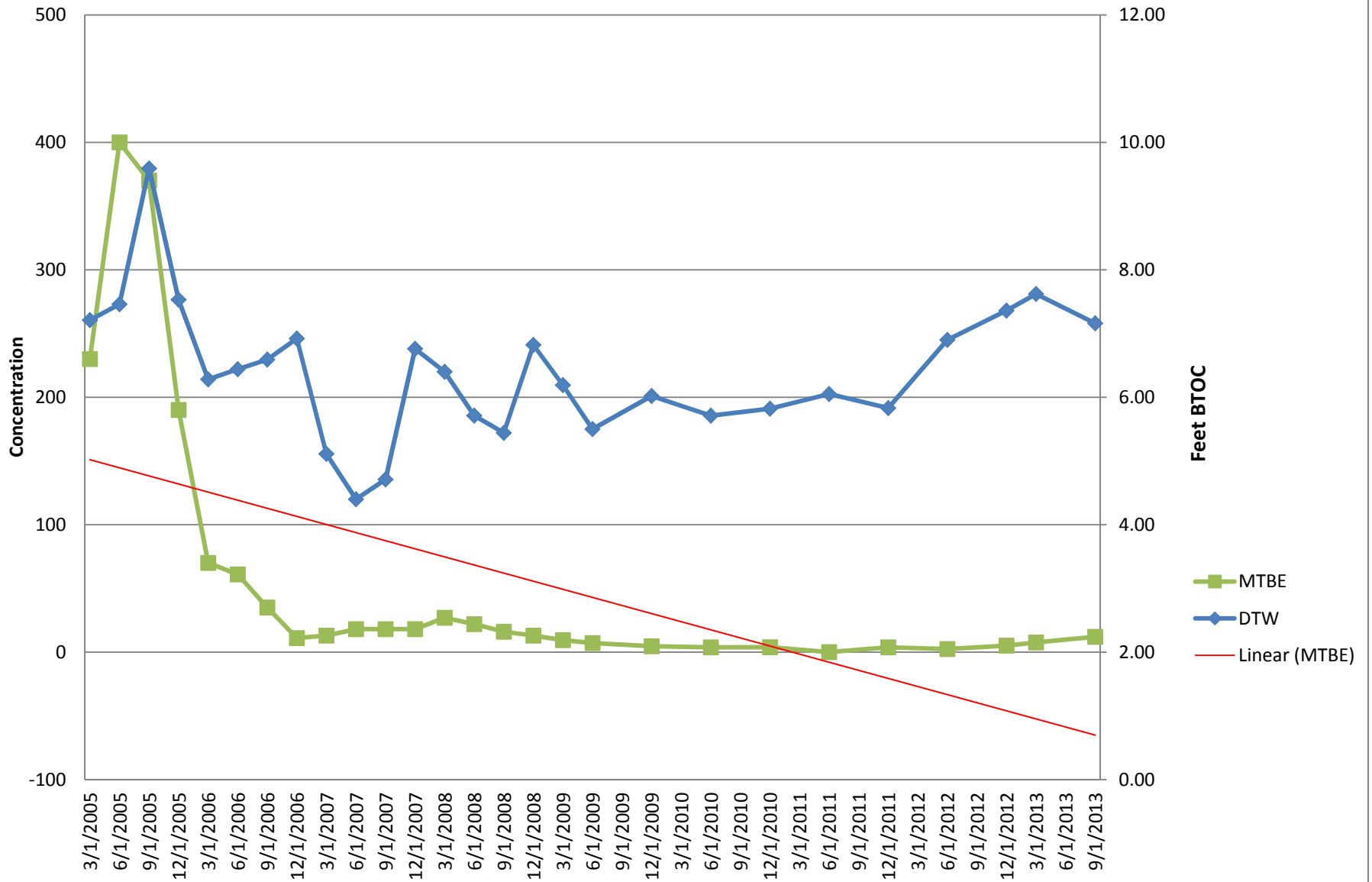
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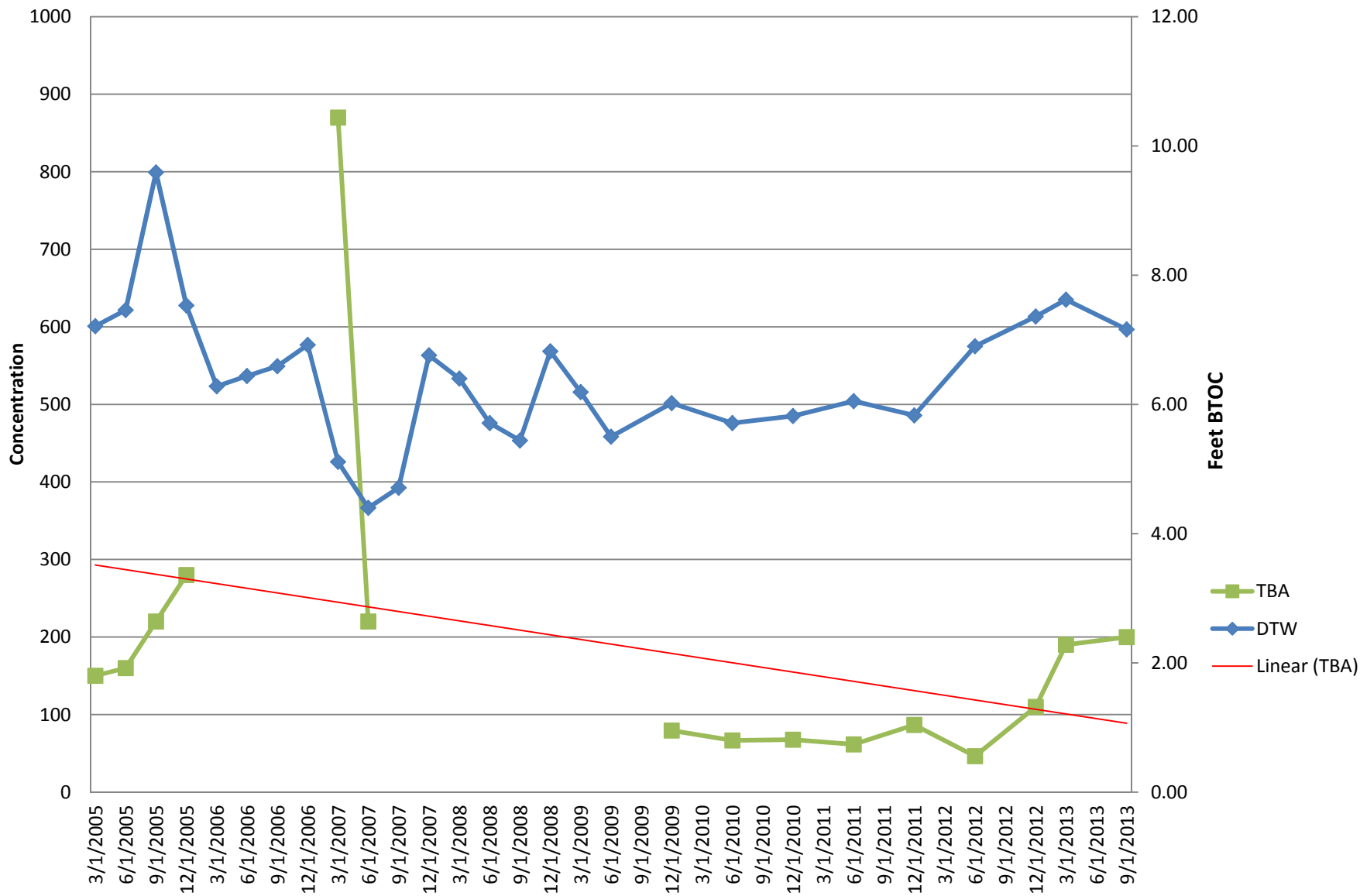
U-5 TPHg and DTW



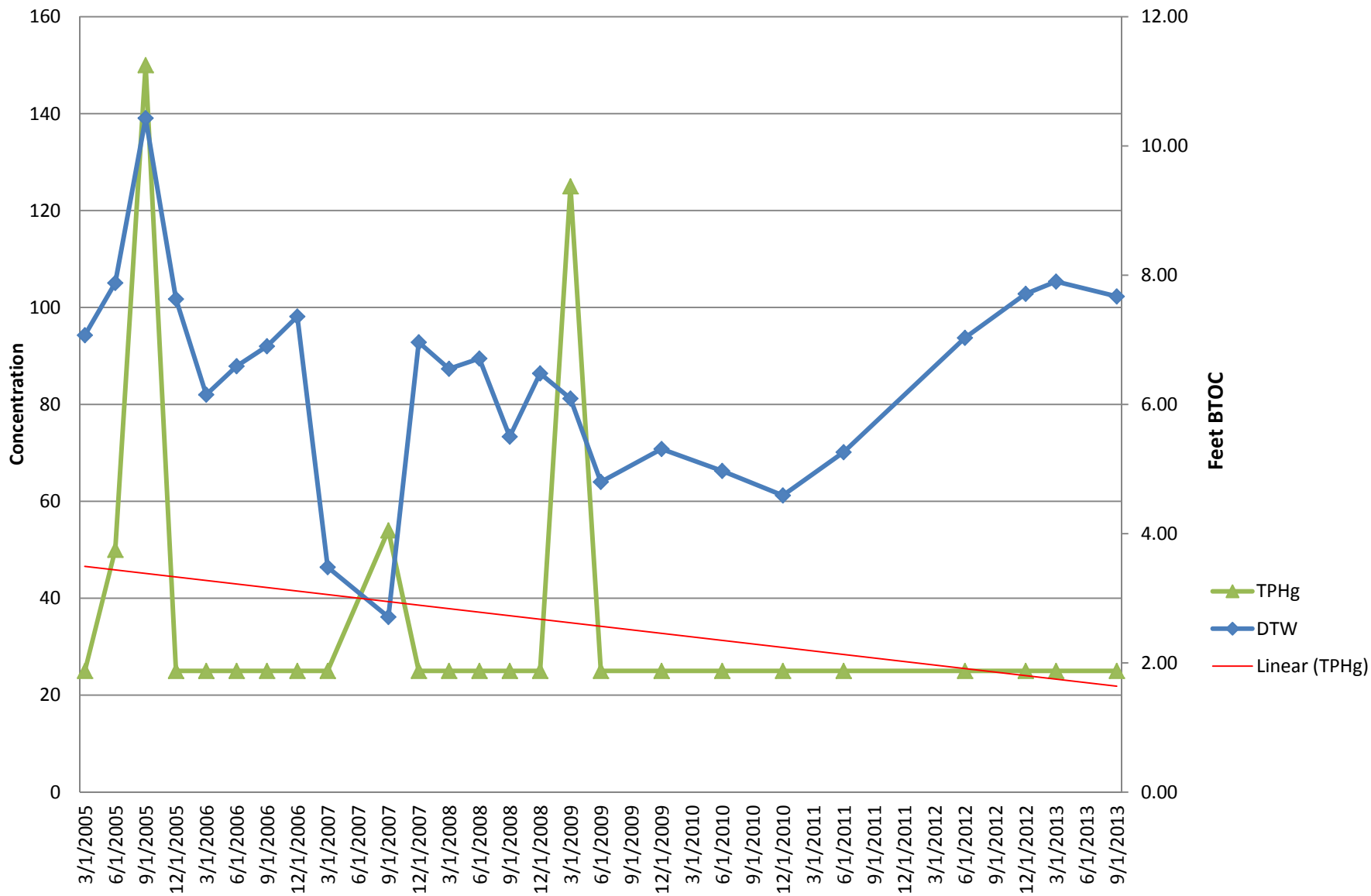
U-5 MTBE and DTW



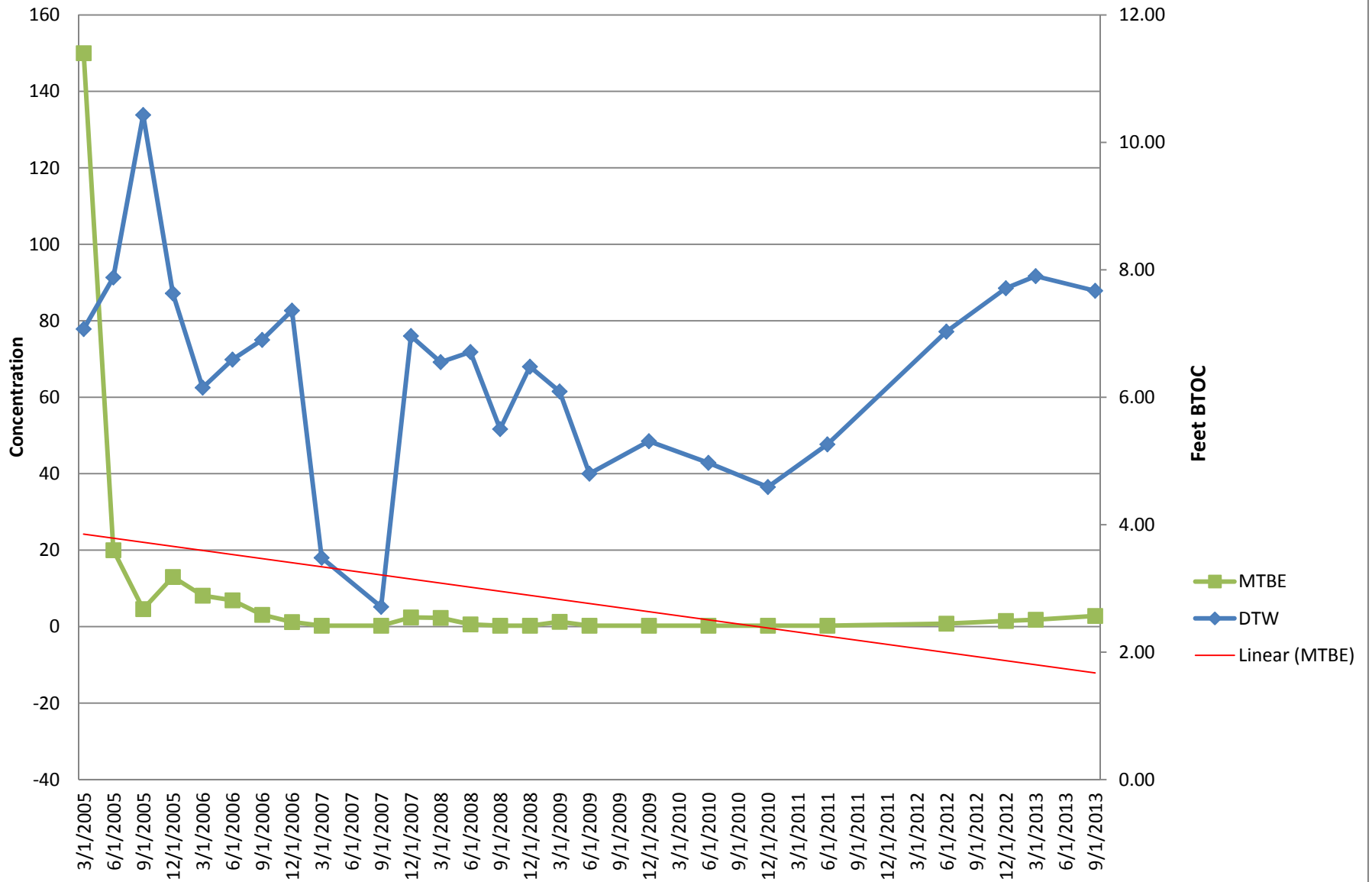
U-5 TBA and DTW



U-6 TPHg and DTW



U-6 MTBE and DTW



U-6 TBA and DTW

