Ultramar, Inc.

July 25, 2013

Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FORMER BEACON STATION NO. 12574
22315 REDWOOD ROAD RWQCB Case No. 01-0167
CASTRO VALLEY, CALIFORNIA ACDEH: RO 0000355

Mr. Wickham:

Please find enclosed the **Semi-Annual Groundwater Monitoring Report** for the above-referenced facility. Pursuant to your requests, I declare, under penalty of perjury, that the following information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Please call if you have any questions or comments regarding this letter or the enclosed report (303) 379-3091.

Sincerely,
ULTRAMAR INC.

Roger Levin
Manager – Environmental Liability
10955 Westmoor Drive, Suite 400
Westminster, Colorado 80021

Enclosures

cc w/o encl. Mr. Ken Mateik, Horizon Environmental

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

August 5, 2013

Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: **Transmittal of Semi-Annual Monitoring Report**
First Semi-Annual 2013
Former Beacon Station 12574
22315 Redwood Road, Castro Valley, California

Mr. Wickham:

At the request of Ultramar Inc., Horizon Environmental Inc. (Horizon) is forwarding the enclosed *Semi-Annual Groundwater Monitoring Report* dated August 5, 2013. The report documents results of second quarter 2013 groundwater monitoring at the subject site.

Please call Horizon at 916-939-2170 if you have any questions or require additional information.

Sincerely,
HORIZON ENVIRONMENTAL INC.

Karen P. Liptak
Staff Geologist

Enclosure

cc: Mr. Roger Levin, Ultramar, Inc.
Mr. Allen Shin, Banya Investment LLC
Mr. Bill Courtney
Mr. Ali Kashikar, Offsite Property Owner

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

August 5, 2013

Mr. Jerry Wickham, Haz Mat Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: **Groundwater Monitoring Report**
First Semi-Annual 2013
Former Beacon Station No. 12574 RWQCB Case No. 01-0167
22315 Redwood Road, Castro Valley, California ACDEH: RO0000355

Mr. Wickham:

At the request of Ultramar Inc. (Ultramar), Horizon Environmental Inc. (Horizon) has prepared this Groundwater Monitoring Report which documents the first semi-annual 2013 groundwater monitoring at the above-referenced Site (Figure 1). There are currently six groundwater monitoring wells (MW-1 through MW-6) and three vapor wells (VW-1, VW-2 and VW-3) associated with this Site. Wells MW-1 through MW-4 and VW-1, VW-2 and VW-3 are located within the Site property boundaries, while well MW-5A is located offsite to the west within the North Sixth Street right-of-way, and well MW-6 is located offsite to the south on the adjoining Kashikar property, as shown on the Site Map (Figure 2) and Site Area Map (Figure 3).

Groundwater Monitoring

Groundwater monitoring activities were conducted by Horizon on June 20, 2012 according to Horizon Field Methods and Procedures, which are presented as Attachment A, and Horizon Monitoring Well Data Sheets, which are included as Attachment B. The depth-to-water (DTW) levels in the six monitoring wells were measured to the nearest 0.01-foot from the top-of-casing (TOC), and the DTW level measurements were subtracted from surveyed TOC elevations to obtain groundwater elevations, as listed in Table 1. The physical parameters conductivity, pH and temperature were monitored with field instrumentation during the purging process. On June 21, 2013, Horizon transported the 115 gallons of monitoring well purge water to the InStrat, Inc. facility in Rio Vista, California for disposal. The non-hazardous waste manifest for the purge water is included in Attachment B.

Groundwater samples were collected by Horizon from wells MW-1 through MW-6, and were submitted under chain-of-custody (COC) documentation to Kiff Analytical LLC, a California Department of Health Services-certified analytical laboratory (NELAP No. 08263CA) located in Davis, California. As requested by the Alameda County Department of Environmental Health (ACDEH) in Item #3 of their January 8, 2009 letter, the groundwater samples were

analyzed for total petroleum hydrocarbons as gasoline (TPHg); the volatile aromatic compounds benzene, toluene, ethylbenzene and total xylenes (BTEX); the fuel oxygenates methyl-t-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tert-amyl methyl ether (TAME) and tert-butanol (TBA), and the lead scavenger compounds 1,2-dichloroethane (DCA) and 1,2-dibromoethane (EDB) by Environmental Protection Agency (EPA) Method 8260B. Copies of the laboratory reports and Chain-of-Custody are included as Attachment C. Historical groundwater data as reported by previous consultants is included as Attachment D.

Groundwater Monitoring Results

Groundwater elevation data was used to construct the Groundwater Elevation Contour Map (Figure 4). The groundwater flow direction beneath the Site is towards the southwest at an average rate of 0.02 foot/foot, as depicted on Figure 4. Groundwater monitoring previously performed at the Site has indicated a similar groundwater magnitude and flow direction, as summarized on the Historical Groundwater Flow Chart included as Figure 4A. The distribution of TPHg, Benzene and MTBE analytical data are shown on the Groundwater Analytical Summary (Figure 5). A Benzene Isoconcentration Map is shown as Figure 6. Time-Trend Charts for TPHg, Benzene, MTBE and TBA in wells MW-1 and MW-2 can be found as Figures 7 through 11 of this report.

GeoTracker Electronic Data Deliverables

The analytical electronic data deliverable (EDD) was prepared and uploaded by Kiff. The groundwater level EDD (GEO_WELL) was prepared and uploaded by Horizon. The GEO_WELL upload confirmation sheet for this semi-annual monitoring and the Semi-Annual Monitoring (SAM) Report EDD (GEO_REPORT) upload confirmation sheet for the previous SAM report are contained in Attachment E.

Discussion and Recommendations

Continued elevated concentrations of TPHg, BTEX, MTBE and TBA in onsite wells MW-1 and MW-2 indicate limited degradation of dissolved gasoline hydrocarbons in groundwater beneath the Site. The dissolved gasoline concentrations reported from well MW-1 located next to the over-excavated former Beacon USTs have attenuated much more than the dissolved gasoline concentrations reported from well MW-2 located next to the former Shell USTs. The distributions of the TPHg, BTEX and TBA analytes indicate an older, degraded dissolved gasoline plume likely originating from the former Shell USTs near well MW-2 shown on Figure 2. Groundwater analytical data from offsite well MW-5A indicates no concentrations of TPHg, BTEX, MTBE and TBA downgradient of the Site.

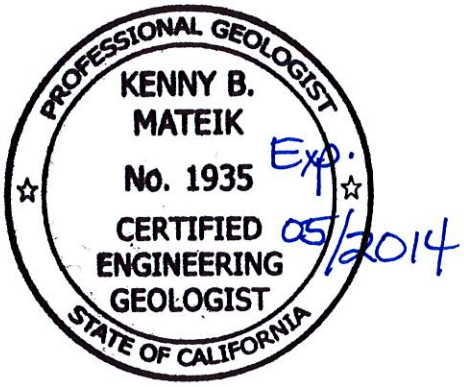
The attenuation trends of TPHg and BTEX are most pronounced after high-vacuum dual-phase extraction (HVDPE) remedial testing was performed at the Site in 2009. During the HVDPE testing, approximately 220 pounds of vapor-equivalent TPHg and 1.6 pounds of vapor-equivalent Benzene were removed from the subsurface (Horizon, June 30, 2009). These trends can be seen in the Time-Trend Charts for TPHg and Benzene shown in Figures 7 through 11.

Remedial HVDPE and soil vapor extraction (SVE) testing data was utilized in the preparation of a combined Problem Assessment Report (PAR), Site Conceptual Model (SCM), and [Draft] Corrective Action Plan (CAP) report. The Site Conceptual Model, Human Health Risk Analysis, and [Draft] Corrective Action Plan (Horizon, August 22, 2012) was submitted to the ACDEH, and uploaded to their FTP site on August 23, 2012. After review of the [Draft] CAP report, and allowance for public comments, the ACDEH issued their approval of the proposed work scope (ACDEH, November 6, 2012). Horizon will proceed with the proposed work scope at the Site later in 2013.

If you have any questions, please contact Horizon at (916) 939-2170.

Sincerely,
HORIZON ENVIRONMENTAL INC.

Kenny B. Mateik
Professional Geologist, C.E.G. No. 1935



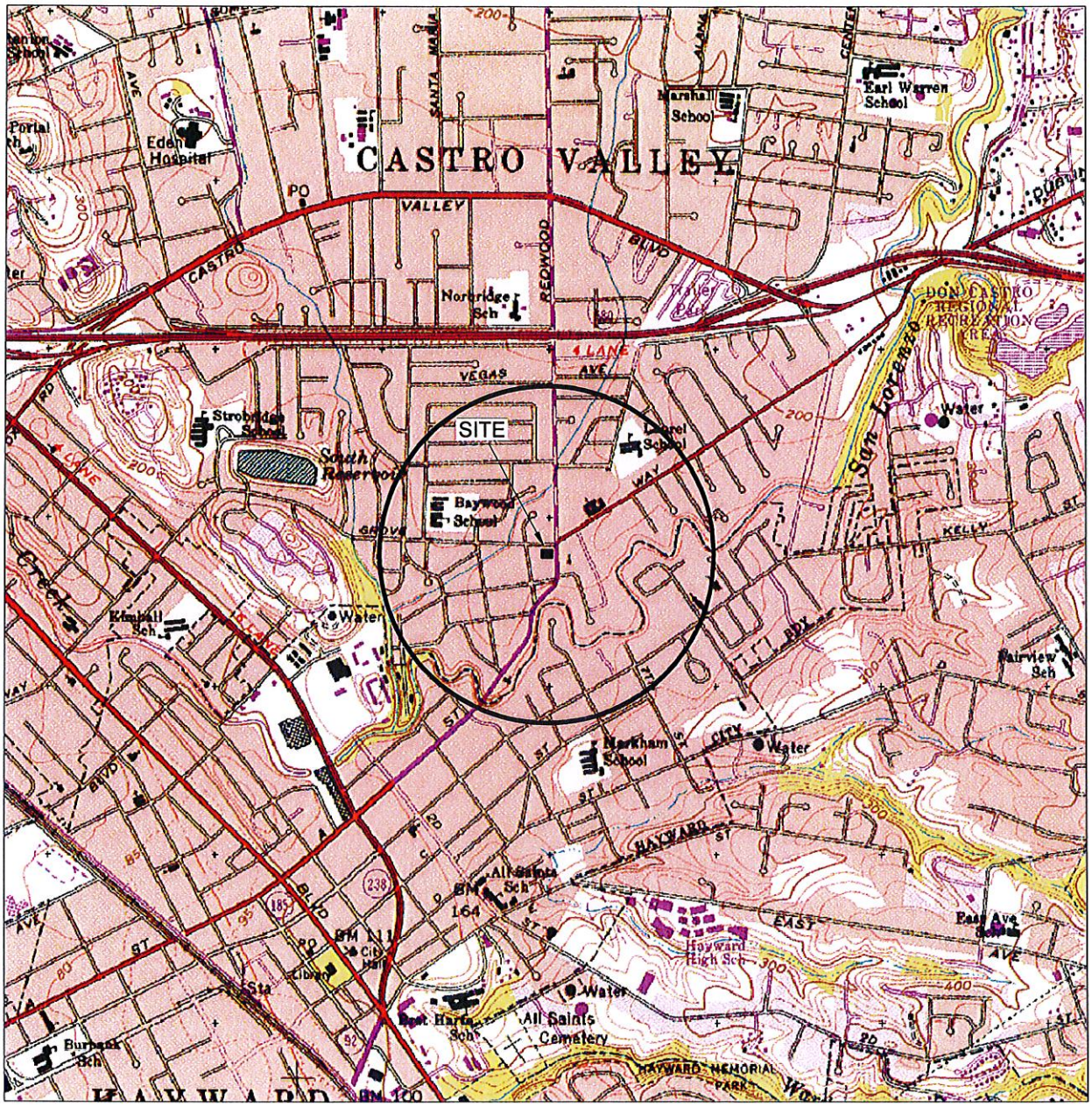
Karen P. Liptak
Staff Geologist

Attachments:

Figure 1:	Site Vicinity Map
Figure 2:	Site Map
Figure 3:	Site Area Map
Figure 4:	Groundwater Elevation Contour Map
Figure 4A:	Historical Groundwater Flow Table
Figure 5:	Groundwater Analytical Summary
Figure 6:	Benzene Isoconcentration Map
Figure 7:	TPHg vs. Time Graph for Monitoring Well MW-1
Figure 8:	Benzene vs. Time Graph for Monitoring Well MW-1
Figure 9:	MTBE and TBA vs. Time Graph for Monitoring Well MW-1
Figure 10:	TPHg and Benzene vs. Time Graph for Monitoring Well MW-2
Figure 11:	MTBE and TBA vs. Time Graph for Monitoring Well MW-2
Table 1:	Groundwater Monitoring Data
Attachment A:	Horizon Field Methods and Procedures Site Description and Background
Attachment B:	Horizon Monitoring Well Data Sheets Purge Water Disposal Documentation

Attachment C: Analytical Report
Attachment D: Historical Groundwater Data
Attachment E: GeoTracker Electronic Data Deliverable Confirmation Sheets

c: Mr. Roger Levin, Ultramar, Inc.
Mr. Allen Shin, Banya Investment LLC
Mr. Bill Courtney, Property Manager
Mr. Ali Kashikar, Offsite Property Owner



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
HAYWARD, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION

0 2000 FT

SCALE 1:24,000

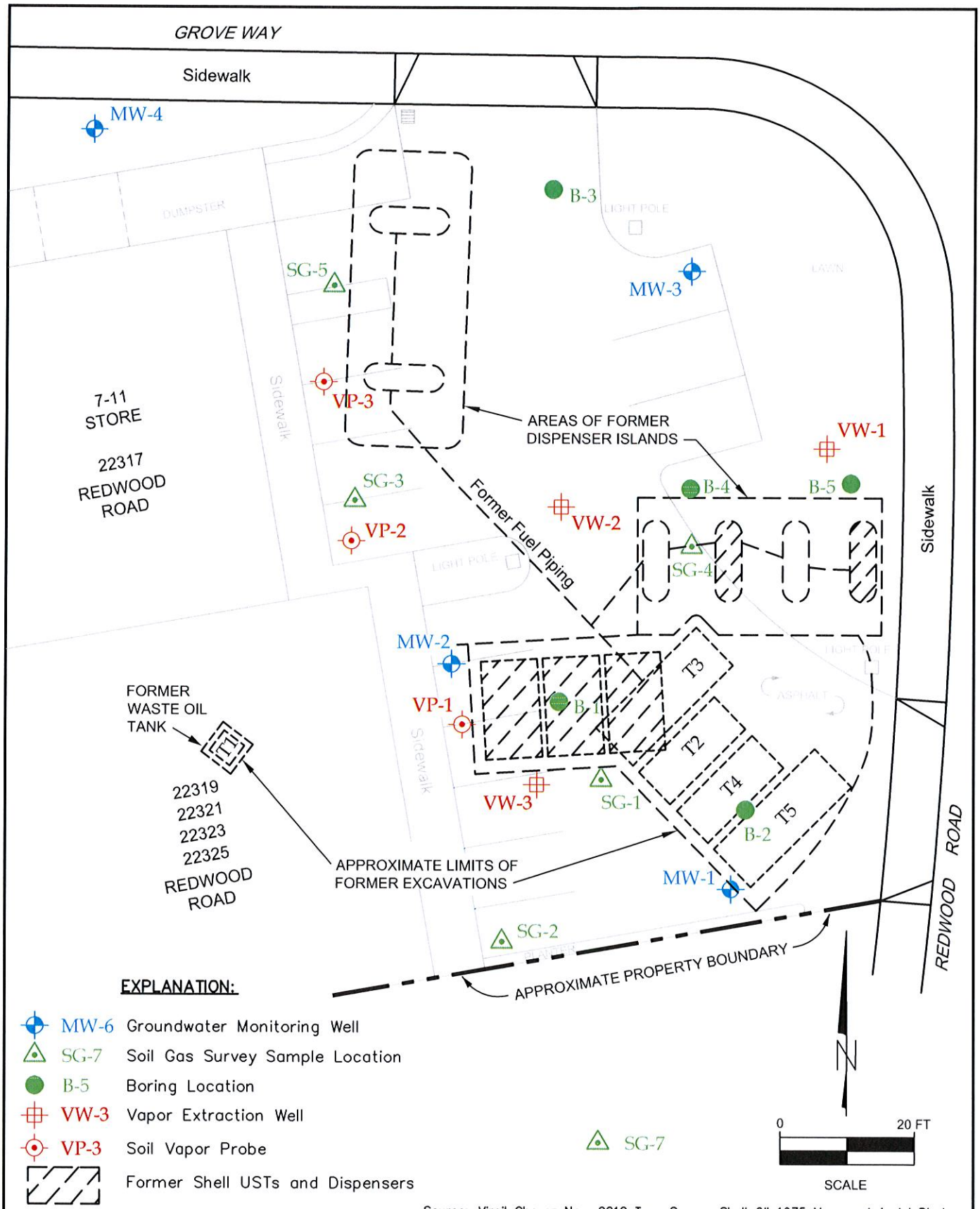
NORTH

HORIZON ENVIRONMENTAL INC.

Project Number: 1574.41	Drawn By: M. LaCoste	SITE LOCATION MAP
Prepared By: K. Liptak	Date: 10/7/04	FORMER BEACON STATION NO. 12574
Reviewed By: K. Mateik	Revised Date:	22315 REDWOOD ROAD CASTRO VALLEY, CA.

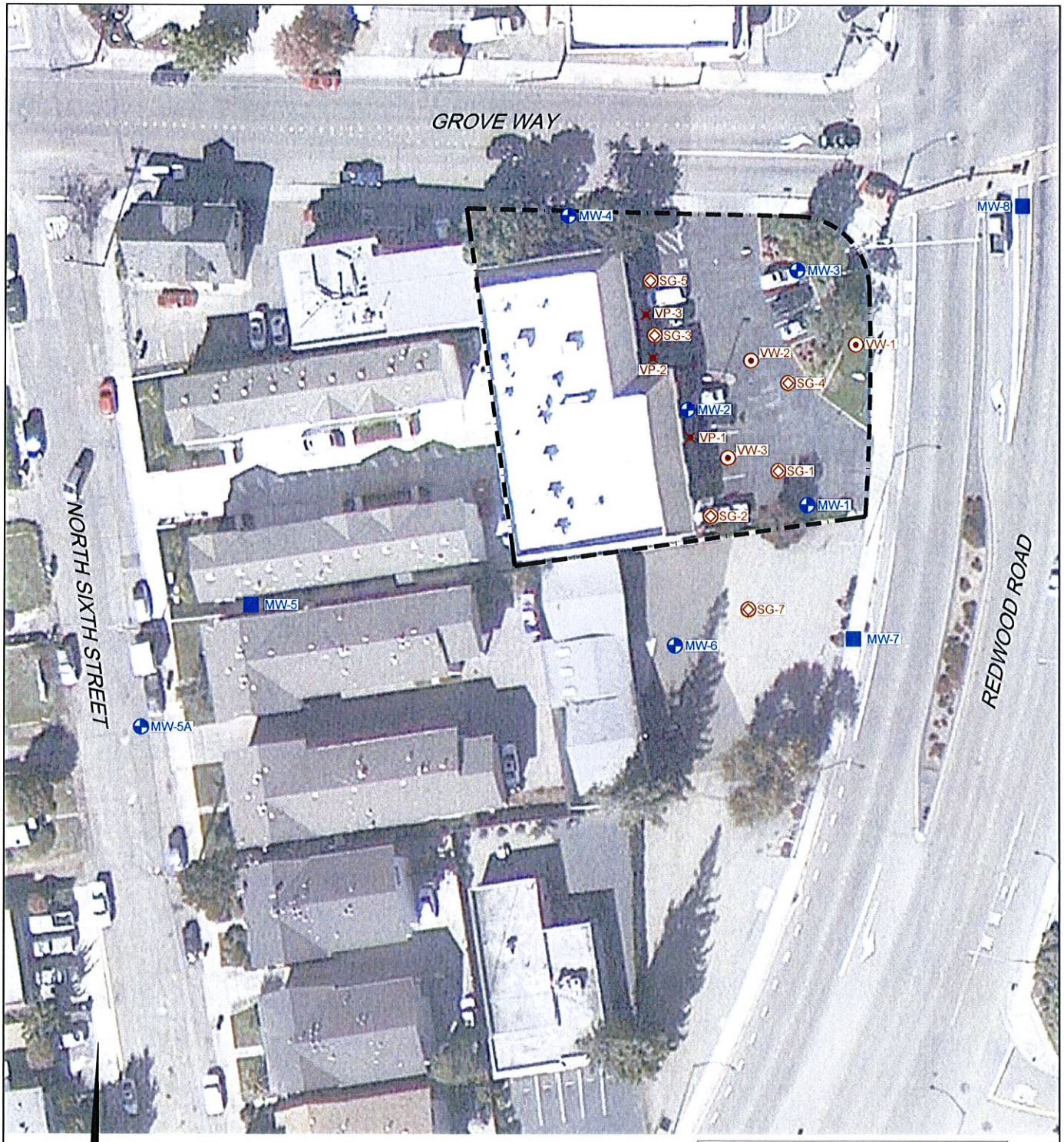
FIGURE

1



Source: Virgil Chavez Nov. 2010 Topo Survey, Shell Oil 1975 Map, and Aerial Photos

HORIZON ENVIRONMENTAL INC.		SITE MAP	FIGURE
Project Number: 1574.13 Prepared By: E. Kruck Reviewed By: K. Mateik	Drawn By: C. Bechtell Date: Revised Date:	FORMER BEACON STATION NO. 12574 22315 REDWOOD ROAD CASTRO VALLEY, CA.	2



HORIZON ENVIRONMENTAL INC.

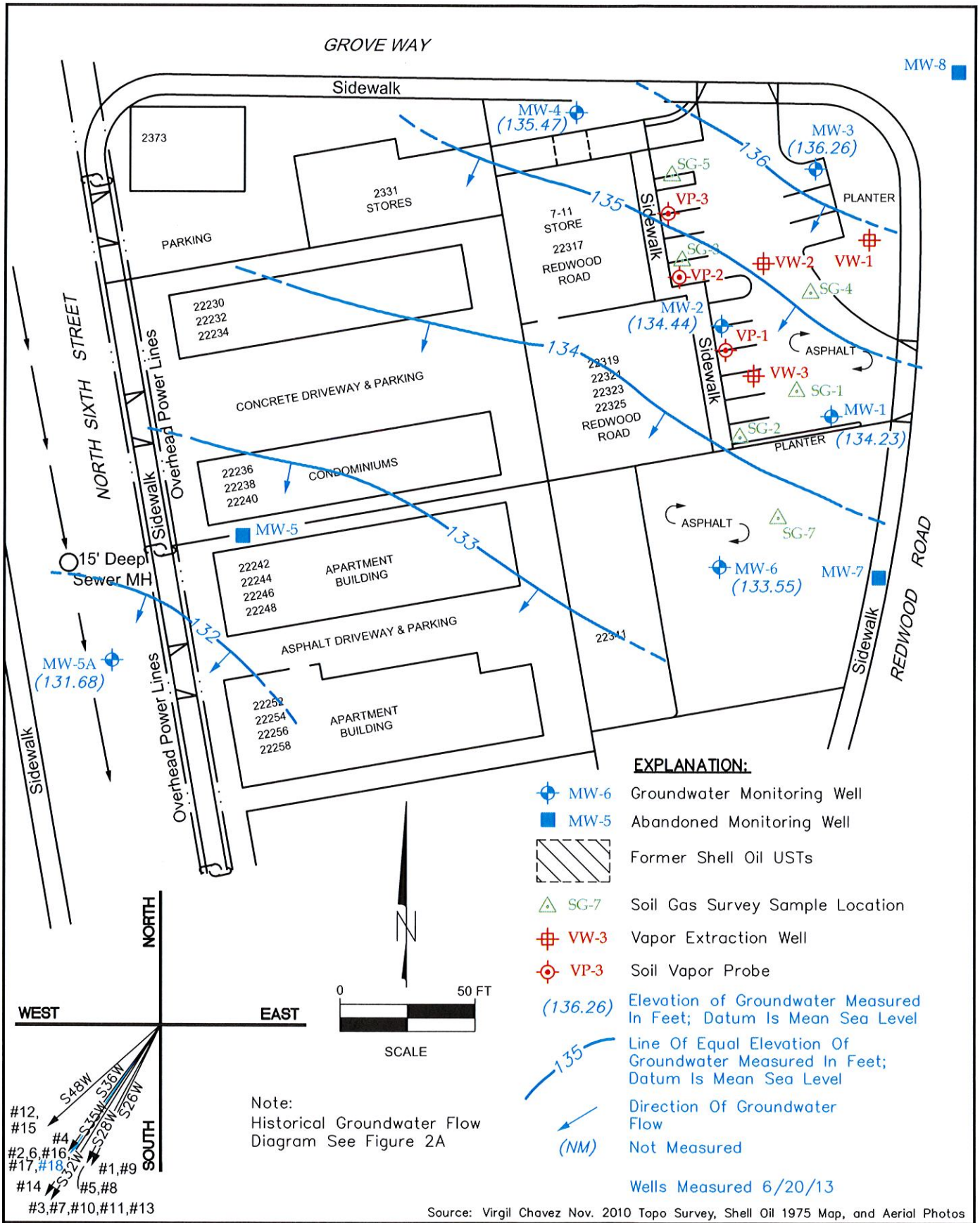
Project Number: 1574.13	Drawn By: M. LaCoste
Prepared By: E. Kruck	Date: 1/25/12
Reviewed By: K. Mateik	Revised Date: 11/27/12

SITE AREA MAP

FORMER BEACON STATION NO. 12574
22315 REDWOOD ROAD
CASTRO VALLEY, CA.

FIGURE

3



Note:
Historical Groundwater Flow Diagram See Figure 2A

Source: Virgil Chavez Nov. 2010 Topo Survey, Shell Oil 1975 Map, and Aerial Photos

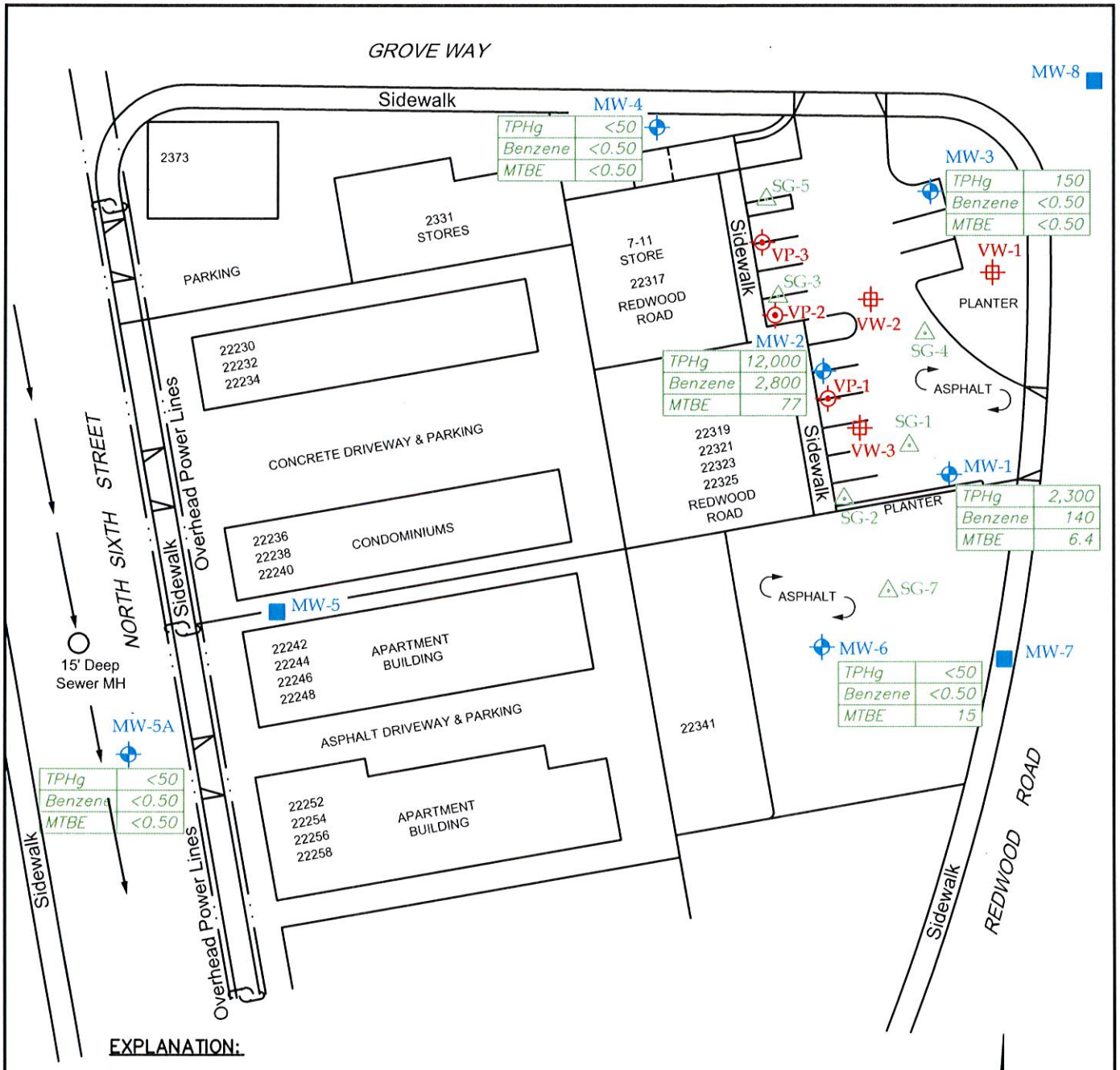
HORIZON ENVIRONMENTAL INC.

Project Number: 1574.410 Prepared By: K. Liptak Reviewed By: K. Mateik	Drawn By: C. Bechtell Date: 12/12 Revised Date: 07/13	GROUNDWATER ELEVATION CONTOUR MAP FORMER BEACON STATION NO. 12574 22315 REDWOOD ROAD CASTRO VALLEY, CA.

FIGURE
4

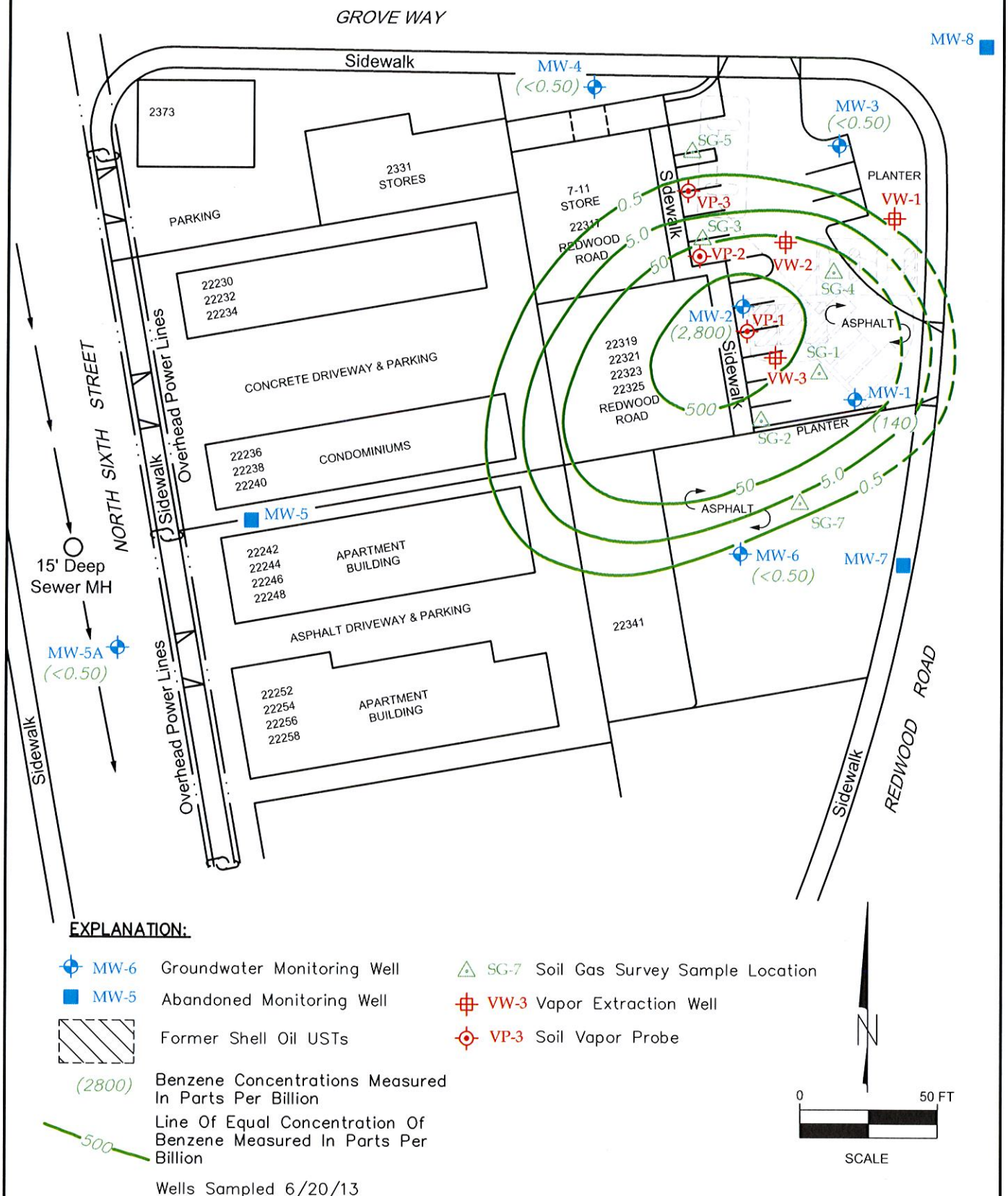
Figure 4A
HISTORICAL GROUNDWATER FLOW CHART
Former Beacon Station No. 12574
22315 Redwood Road,
Castro Valley, California

Date	Map ID Number	Direction of Groundwater Flow
08/31/04	#1	S 26 W
02/01/05	#2	S 35 W
07/29/05	#3	S 32 W
01/16/06	#4	S 36 W
08/30/06	#5	S 28 W
02/13/07	#6	S 35 W
08/13/07	#7	S 32 W
02/11/08	#8	S 28 W
07/29/08	#9	S 26 W
02/25/09	#10	S 32 W
08/26/09	#11	S 32 W
01/29/10	#12	S 48 W
08/23/10	#13	S 32 W
03/03/11	#14	S 34 W
08/24/11	#15	S 48 W
02/13/12	#16	S 35 W
10/02/12	#17	S 35 W
06/20/13	#18	S 35 W



Source: Virgil Chavez Nov. 2010 Topo Survey, Shell Oil 1975 Map, and Aerial Photos

HORIZON ENVIRONMENTAL INC.		GROUNDWATER ANALYTICAL SUMMARY FORMER BEACON STATION NO. 12574 22315 REDWOOD ROAD CASTRO VALLEY, CA.	FIGURE 5
Project Number: 1574.410 Prepared By: K. Liptak Reviewed By: K. Mateik	Drawn By: C. Bechtell Date: 12/12 Revised Date: 07/13		



Source: Virgil Chavez Nov. 2010 Topo Survey, Shell Oil 1975 Map, and Aerial Photos

HORIZON ENVIRONMENTAL INC.		BENZENE ISOCONCENTRATION MAP FORMER BEACON STATION NO. 12574 22315 REDWOOD ROAD CASTRO VALLEY, CA.	FIGURE 6
Project Number: 1574.410 Prepared By: K. Liptak Reviewed By: K. Mateik	Drawn By: C. Bechtell Date: 12/12 Revised Date: 07/13		

FIGURE 7
TPHg vs. Time
Monitoring Well MW-1
Former Beacon Station No. 12574
22135 Redwood Road, Castro Valley, California

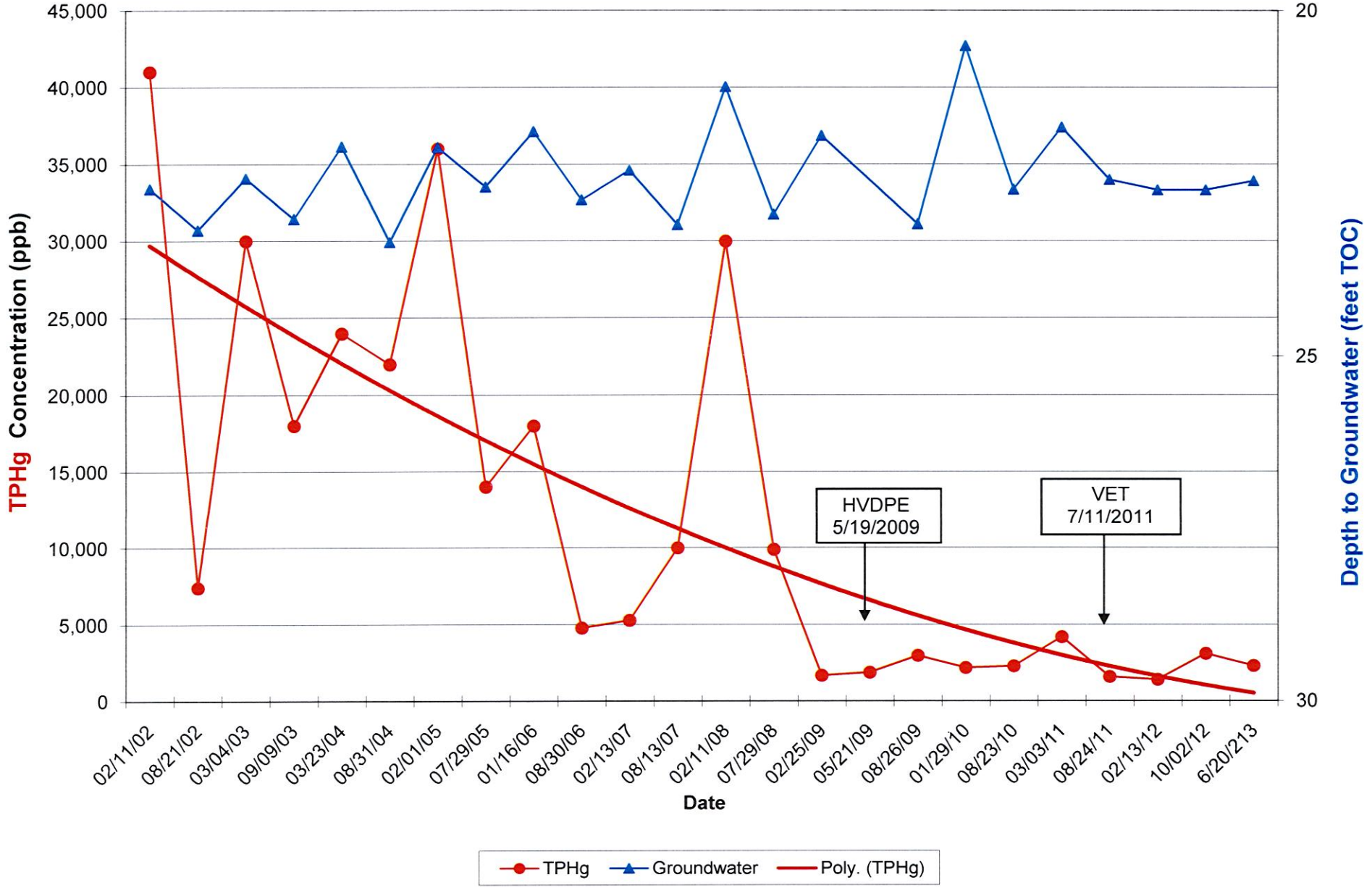


FIGURE 8
Benzene vs. Time
Monitoring Well MW-1
Former Beacon Station No. 12574
22135 Redwood Road, Castro Valley, California

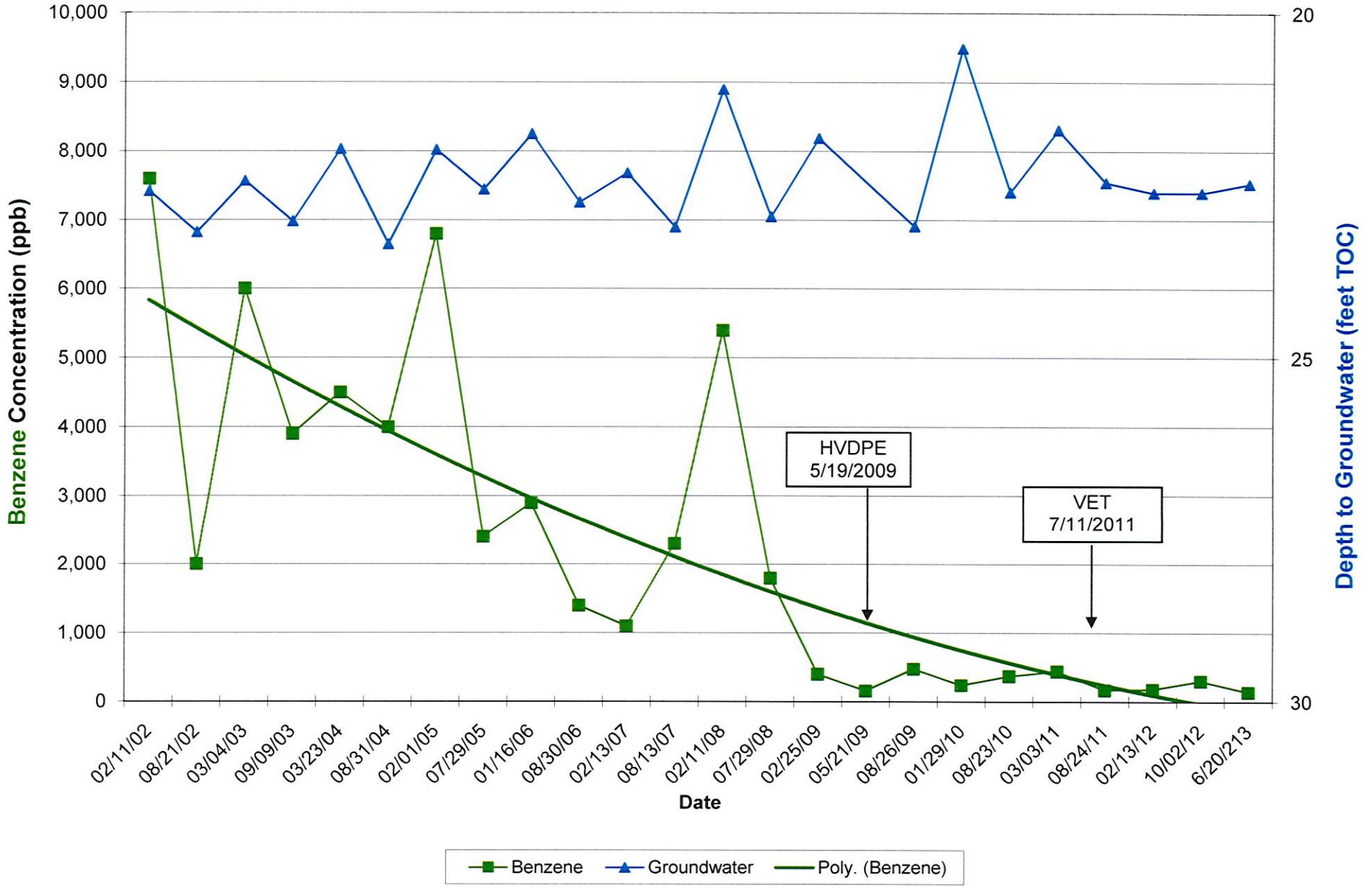


FIGURE 9
MTBE and TBA vs. Time
Monitoring Well MW-1
Former Beacon Station No. 12574
22135 Redwood Road, Castro Valley, California

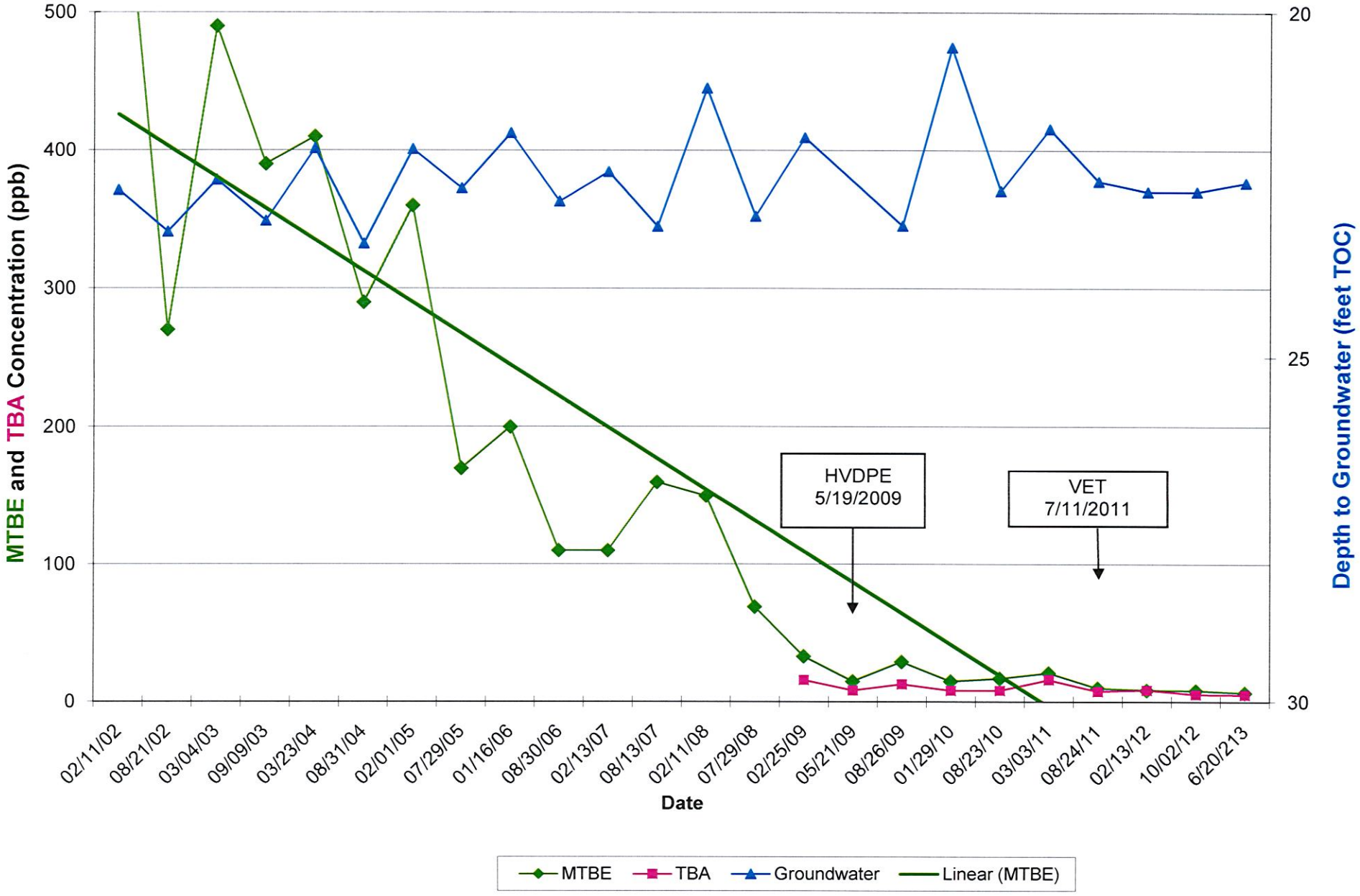


FIGURE 10
TPHg and Benzene vs. Time
Monitoring Well MW-2
Former Beacon Station No. 12574
22315 Redwood Road, Castro Valley, California

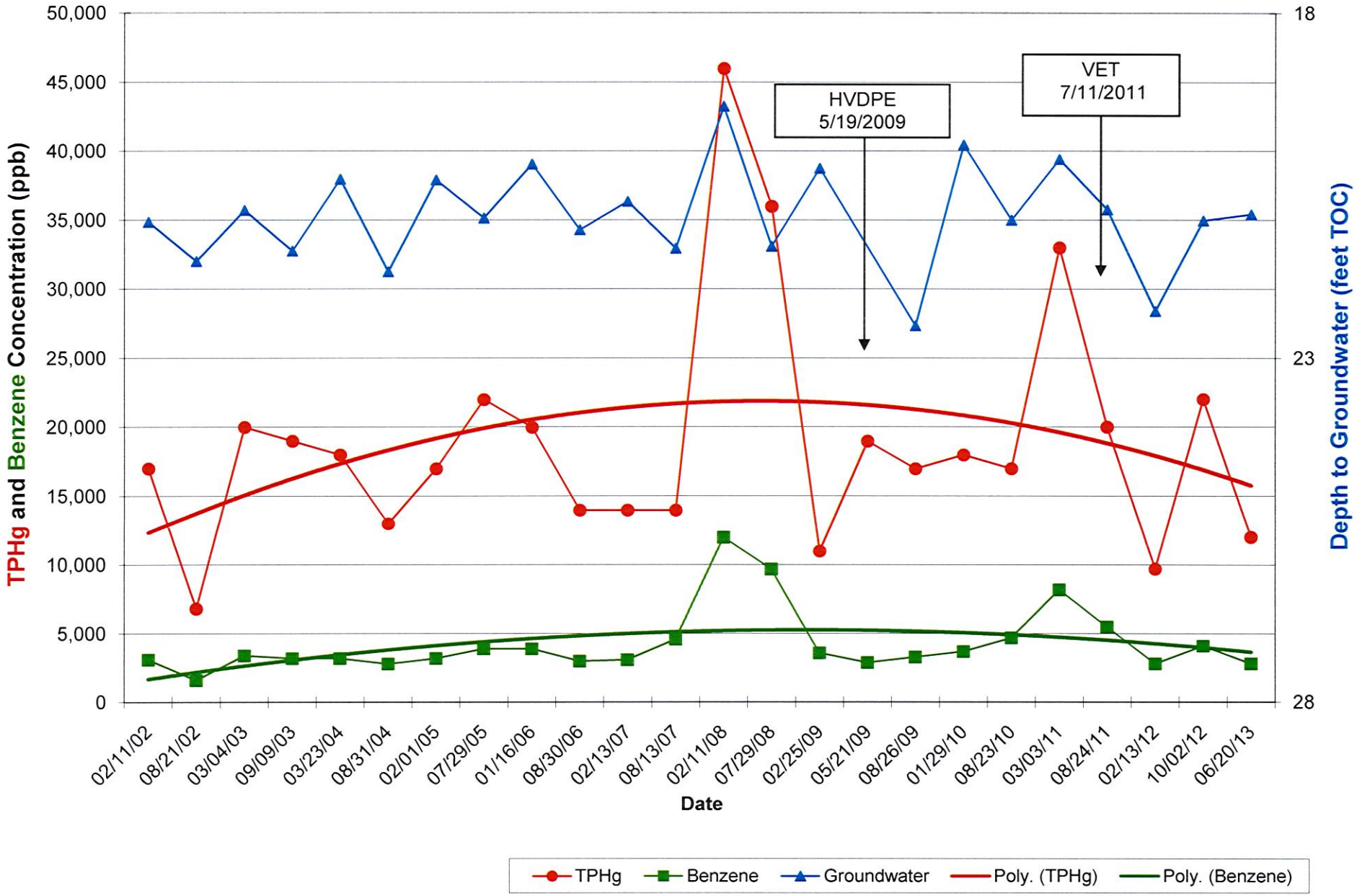


FIGURE 11
MTBE and TBA vs. Time
Monitoring Well MW-2
Former Beacon Station No. 12574
22135 Redwood Road, Castro Valley, California

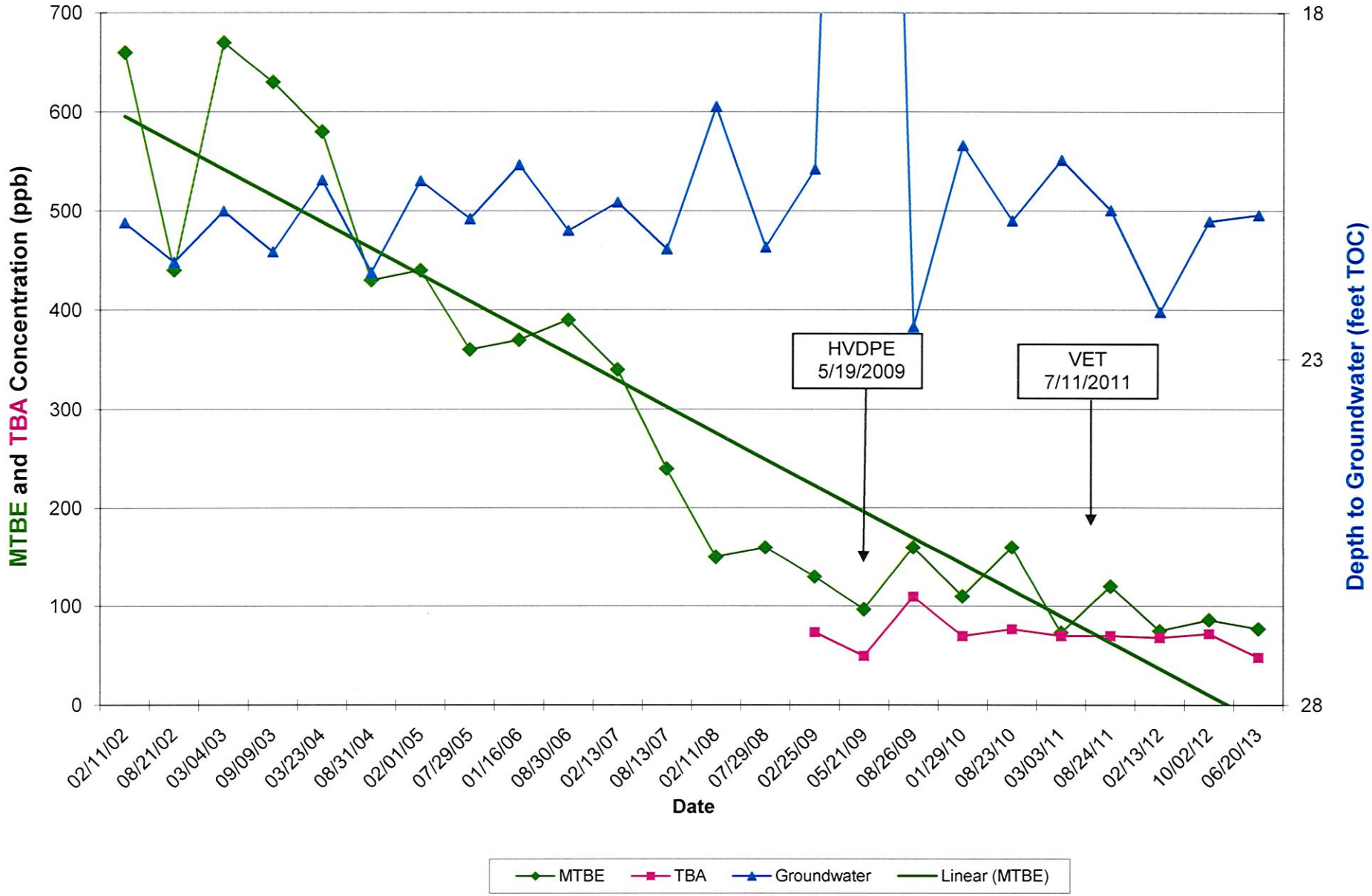


Table 1 - Groundwater Monitoring Data
Former Beacon Station No. 12574
22315 Redwood Road
Castro Valley, California

Well Number	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	TPHg ug/L	MTBE ug/L	TBA ug/L	Depth to GW	T.O.C. Elevation	GW Elevation	Well Diam.	Screen Interval	Comments
MW-1	02/11/02	7,600	160	1,600	4,200	41,000	640	na	22.58	158.70	136.12	4"	10' - 30'	no comments
MW-1	08/21/02	2,000	31	220	510	7,400	270	na	23.18		135.52			no comments
MW-1	03/04/03	6,000	130	1,300	2,900	30,000	490	na	22.43		136.27			no comments
MW-1	09/09/03	3,900	69	760	1,700	18,000	390	na	23.02		135.68			no comments
MW-1	03/23/04	4,500	89	1,000	2,000	24,000	410	na	21.97		136.73			no comments
MW-1	08/31/04	4,000	77	780	1,600	22,000	290	na	23.35		135.35			no comments
MW-1	02/01/05	6,800	160	1,800	3,000	36,000	360	na	21.98		136.72			no comments
MW-1	07/29/05	2,400	54	460	750	14,000	170	na	22.55		136.15			no comments
MW-1	01/16/06	2,900	61	860	1,300	18,000	200	na	21.75		136.95			no comments
MW-1	08/30/06	1,400	22	150	240	4,800	110	na	22.74		135.96			no comments
MW-1	02/13/07	1,100	49	210	280	5,300	110	na	22.31		136.39			no comments
MW-1	08/13/07	2,300	49	11	630	10,000	160	na	23.10		135.60			no comments
MW-1	02/11/08	5,400	260	2,300	3,400	30,000	150	na	21.10		137.60			no comments
MW-1	07/29/08	1,800	28	720	220	9,900	69	na	22.95		135.75			no comments
MW-1	02/25/09	400	7.0	53	34	1,700	33	16	21.81		136.89			slight odor / no sheen
MW-1	05/21/09	160	50	120	140	1,900	15	8.4	nm		nc			post HVDPE sample
MW-1	08/26/09	480	130	120	240	3,000	29	13	23.09		135.61			slight odor / no sheen
MW-1	01/29/10	240	16	45	100	2,200	15	8.3	20.51		138.19			slight odor / no sheen
MW-1	08/23/10	370	7	54	83	2,300	17	8.3	22.59		136.11			odor / no sheen
MW-1	11/10/10	-------	-------	-------	-------	-------	-------	-------		156.83				GPS surveying of well
MW-1	03/03/11	440	14	190	120	4,200	21	16	21.69		135.14			odor / no sheen
MW-1	08/24/11	170	6.3	20	26	1,600	10	7.6	22.45		134.38			slight odor / no sheen
MW-1	02/13/12	180	5.4	24	43	1,400	8.4	8.6	22.60		134.23			odor / no sheen
MW-1	10/02/12	300	7.1	51	74	3,100	8.2	5.3	22.60		134.23			slight odor / no sheen
MW-1	06/20/13	140	5.6	34	69	2,300	6.4	<5.0	22.47		134.36			odor / no sheen
MW-2	02/11/02	3,100	270	690	1,600	17,000	660	na	21.03	157.33	136.30	4"	10' - 30'	no comments
MW-2	08/21/02	1,600	44	290	260	6,800	440	na	21.60		135.73			no comments
MW-2	03/04/03	3,400	200	590	1,100	20,000	670	na	20.86		136.47			no comments
MW-2	09/09/03	3,200	120	630	940	19,000	630	na	21.45		135.88			no comments
MW-2	03/23/04	3,200	110	640	740	18,000	580	na	20.41		136.92			no comments
MW-2	08/31/04	2,800	59	510	420	13,000	430	na	21.75		135.58			no comments
MW-2	02/01/05	3,200	110	700	730	17,000	440	na	20.42		136.91			no comments
MW-2	07/29/05	3,900	210	770	930	22,000	360	na	20.97		136.36			no comments
MW-2	01/16/06	3,900	120	770	790	20,000	370	na	20.19		137.14			slight sheen / odor
MW-2	08/30/06	3,000	79	480	450	14,000	390	na	21.14		136.19			no comments
MW-2	02/13/07	3,100	110	600	620	14,000	340	na	20.73		136.60			sheen
MW-2	08/13/07	4,600	150	560	410	14,000	240	na	21.41		135.92			no comments
MW-2	02/11/08	12,000	4,400	1,700	5,200	46,000	150	na	19.35		137.98			no comments
MW-2	07/29/08	9,700	840	1,400	4,000	36,000	160	na	21.38		135.95			no comments
MW-2	02/25/09	3,600	66	400	320	11,000	130	74	20.25		137.08			odor / no sheen
MW-2	05/21/09	2,900	710	590	1,900	19,000	97	50	nm		nc			post HVDPE sample
MW-2	08/26/09	3,300	280	640	1,600	17,000	160	110	22.53		134.80			odor / no sheen
MW-2	01/29/10	3,700	140	550	1,100	18,000	110	70	19.91		137.42			odor / no sheen
MW-2	08/23/10	4,700	72	550	380	17,000	160	77	21.00		136.33			odor / no sheen
MW-2	11/10/10	-------	-------	-------	-------	-------	-------	-------		155.36				GPS surveying of well
MW-2	03/03/11	8,200	150	1,800	2,400	33,000	73	<70	20.12		135.24			odor / no sheen
MW-2	08/24/11	5,500	89	1,000	410	20,000	120	<70	20.85		134.51			odor / no sheen
MW-2	02/13/12	2,800	30	310	82	9,700	75	68	22.32		133.04			odor / no sheen
MW-2	10/02/12	4,100	120	760	310	22,000	86	72	21.01		134.35			odor / no sheen
MW-2	06/20/13	2,800	52	200	92	12,000	77	48	20.92		134.44			odor / no sheen

Table 1 - Groundwater Monitoring Data
Former Beacon Station No. 12574
22315 Redwood Road
Castro Valley, California

Well Number	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	TPHg ug/L	MTBE ug/L	TBA ug/L	Depth to GW	T.O.C. Elevation	GW Elevation	Well Diam.	Screen Interval	Comments
MW-3	02/11/02	ns	ns	ns	ns	ns	ns	ns	21.55	159.23	137.68	4"	10' - 30'	not sampled
MW-3	08/21/02	ns	ns	ns	ns	ns	ns	ns	22.00		137.23			not sampled
MW-3	03/04/03	ns	ns	ns	ns	ns	ns	ns	21.48		137.75			not sampled
MW-3	09/09/03	ns	ns	ns	ns	ns	ns	ns	21.84		137.39			not sampled
MW-3	03/23/04	ns	ns	ns	ns	ns	ns	ns	20.82		138.41			not sampled
MW-3	08/31/04	ns	ns	ns	ns	ns	ns	ns	21.93		137.30			no comments
MW-3	02/01/05	ns	ns	ns	ns	ns	ns	ns	20.56		138.67			no comments
MW-3	07/29/05	ns	ns	ns	ns	ns	ns	ns	21.37		137.86			no comments
MW-3	01/16/06	ns	ns	ns	ns	ns	ns	ns	20.75		138.48			no comments
MW-3	08/30/06	ns	ns	ns	ns	ns	ns	ns	21.60		137.63			no comments
MW-3	02/13/07	ns	ns	ns	ns	ns	ns	ns	21.37		137.86			no comments
MW-3	08/13/07	ns	ns	ns	ns	ns	ns	ns	nm		nm			well paved over
MW-3	02/11/08	ns	ns	ns	ns	ns	ns	ns	nm		nm			well paved over
MW-3	07/29/08	ns	ns	ns	ns	ns	ns	ns	nm		nm			well paved over
MW-3	02/25/09	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	20.87		138.36			no odor / no sheen
MW-3	08/26/09	<0.50	<0.50	0.71	<0.50	140	<0.50	<5.0	21.68		137.55			no odor / no sheen
MW-3	01/29/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	19.60		139.63			no odor / no sheen
MW-3	08/23/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	21.10		138.13			no odor / no sheen
MW-3	11/10/10	-------	-------	-------	-------	-------	-------	-------		157.37				GPS surveying of well
MW-3	03/03/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	20.58		136.79			no odor / no sheen
MW-3	08/24/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	21.15		136.22			no odor / no sheen
MW-3	02/13/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	21.44		135.93			no odor / no sheen
MW-3	10/02/12	<0.50	<0.50	0.53	<0.50	51	<0.50	<5.0	21.20		136.17			no odor / no sheen
MW-3	06/20/13	<0.50	<0.50	<0.50	<0.50	150	<0.50	<5.0	21.11		136.26			no odor / no sheen
MW-4	02/11/02	ns	ns	ns	ns	ns	ns	ns	16.81	154.13	137.32	2"	13' - 28'	not sampled
MW-4	08/21/02	ns	ns	ns	ns	ns	ns	ns	17.58		136.55			not sampled
MW-4	03/04/03	ns	ns	ns	ns	ns	ns	ns	16.70		137.43			not sampled
MW-4	09/09/03	ns	ns	ns	ns	ns	ns	ns	17.48		136.65			not sampled
MW-4	03/23/04	ns	ns	ns	ns	ns	ns	ns	16.35		137.78			not sampled
MW-4	08/31/04	ns	ns	ns	ns	ns	ns	ns	nm		nm			no comments
MW-4	02/01/05	ns	ns	ns	ns	ns	ns	ns	16.70		137.43			no comments
MW-4	07/29/05	ns	ns	ns	ns	ns	ns	ns	17.06		137.07			no comments
MW-4	01/16/06	ns	ns	ns	ns	ns	ns	ns	16.56		137.57			no comments
MW-4	08/30/06	ns	ns	ns	ns	ns	ns	ns	17.18		136.95			no comments
MW-4	02/13/07	ns	ns	ns	ns	ns	ns	ns	17.01		137.12			no comments
MW-4	08/13/07	ns	ns	ns	ns	ns	ns	ns	17.94		136.19			no comments
MW-4	02/11/08	ns	ns	ns	ns	ns	ns	ns	15.68		138.45			no comments
MW-4	07/29/08	ns	ns	ns	ns	ns	ns	ns	17.31		136.82			no comments
MW-4	02/25/09	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.44		137.69			no odor / no sheen
MW-4	08/26/09	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	17.41		136.72			no odor / no sheen
MW-4	01/29/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.15		137.98			no odor / no sheen
MW-4	08/23/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.78		137.35			no odor / no sheen
MW-4	11/10/10	-------	-------	-------	-------	-------	-------	-------		152.26				GPS surveying of well
MW-4	03/03/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.29		135.97			no odor / no sheen
MW-4	08/24/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.93		135.33			no odor / no sheen
MW-4	02/13/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	17.05		135.21			no odor / no sheen
MW-4	10/02/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.89		135.37			no odor / no sheen
MW-4	06/20/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	16.79		135.47			no odor / no sheen

Table 1 - Groundwater Monitoring Data
Former Beacon Station No. 12574
22315 Redwood Road
Castro Valley, California

Well Number	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	TPHg ug/L	MTBE ug/L	TBA ug/L	Depth to GW	T.O.C. Elevation	GW Elevation	Well Diam.	Screen Interval	Comments
MW-5	02/11/02	ns	ns	ns	ns	ns	ns	ns	15.70	150.73	135.03			not sampled
MW-5	08/21/02	ns	ns	ns	ns	ns	ns	ns	16.17		134.56			not sampled
MW-5	03/04/03	ns	ns	ns	ns	ns	ns	ns	15.46		135.27			not sampled
MW-5	09/09/03	ns	ns	ns	ns	ns	ns	ns	16.05		134.68			not sampled
MW-5	03/23/04	ns	ns	ns	ns	ns	ns	ns	14.88		135.85			not sampled
MW-5	08/31/04	ns	ns	ns	ns	ns	ns	ns	nm		nm			unable to locate due to construction
MW-5	02/01/05	ns	ns	ns	ns	ns	ns	ns	nm		nm			unable to locate due to construction
MW-5	07/29/05	ns	ns	ns	ns	ns	ns	ns	nm		nm			unable to locate due to construction
MW-5A	11/01/10	<0.50	<0.50	<0.50	<0.50	<50	18	<5.0	15.11	146.36	131.25	2"	10' - 30'	no odor / no sheen
MW-5A	03/03/11	<0.50	<0.50	<0.50	<0.50	<50	17	<5.0	13.96		132.40			no odor / no sheen
MW-5A	08/24/11	<0.50	<0.50	<0.50	<0.50	<50	14	<5.0	14.82		131.54			no odor / no sheen
MW-5A	02/13/12	<0.50	<0.50	<0.50	<0.50	<50	17	<5.0	14.90		131.46			no odor / no sheen
MW-5A	10/02/12	<0.50	<0.50	<0.50	<0.50	<50	1.0	<5.0	14.87		131.49			no odor / no sheen
MW-5A	06/20/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	14.68		131.68			no odor / no sheen
MW-6	02/11/02	ns	ns	ns	ns	ns	ns	ns	20.78	156.11	135.33	2"	15' - 30'	not sampled
MW-6	08/21/02	ns	ns	ns	ns	ns	ns	ns	21.41		134.70			not sampled
MW-6	03/04/03	ns	ns	ns	ns	ns	ns	ns	20.64		135.47			not sampled
MW-6	09/09/03	ns	ns	ns	ns	ns	ns	ns	21.23		134.88			not sampled
MW-6	03/23/04	ns	ns	ns	ns	ns	ns	ns	20.21		135.90			not sampled
MW-6	08/31/04	ns	ns	ns	ns	ns	ns	ns	21.50		134.61			no comments
MW-6	02/01/05	ns	ns	ns	ns	ns	ns	ns	20.22		135.89			no comments
MW-6	07/29/05	ns	ns	ns	ns	ns	ns	ns	20.78		135.33			no comments
MW-6	01/16/06	ns	ns	ns	ns	ns	ns	ns	19.92		136.19			no comments
MW-6	08/30/06	<0.50	<0.50	<0.50	<0.50	<50	71	ns	20.94		135.17			no comments
MW-6	02/13/07	ns	ns	ns	ns	ns	ns	ns	20.35		135.76			no comments
MW-6	08/13/07	ns	ns	ns	ns	ns	ns	ns	21.29		134.82			no comments
MW-6	02/11/08	ns	ns	ns	ns	ns	ns	ns	19.50		136.61			no comments
MW-6	07/29/08	ns	ns	ns	ns	ns	ns	ns	21.23		134.88			no comments
MW-6	02/25/09	<0.50	<0.50	<0.50	<0.50	<50	45	<5.0	19.95		136.16			no odor / no sheen
MW-6	08/26/09	<0.50	<0.50	<0.50	<0.50	<50	43	<5.0	21.27		134.84			no odor / no sheen
MW-6	01/29/10	<0.50	<0.50	<0.50	<0.50	<50	46	5.4	19.64		136.47			no odor / no sheen
MW-6	08/23/10	<0.50	<0.50	<0.50	<0.50	<50	36	<5.0	20.88		135.23			no odor / no sheen
MW-6	11/10/10	------	------	------	------	------	------	------		154.27				GPS surveying of well
MW-6	03/03/11	<0.50	<0.50	<0.50	<0.50	<50	40	5.1	19.90		134.37			no odor / no sheen
MW-6	08/24/11	<0.50	<0.50	<0.50	<0.50	<50	29	<5.0	20.67		133.60			no odor / no sheen
MW-6	02/13/12	<0.50	<0.50	<0.50	<0.50	<50	24	<5.0	20.84		133.43			no odor / no sheen
MW-6	10/02/12	<0.50	<0.50	<0.50	<0.50	<50	14	<5.0	20.86		133.41			no odor / no sheen
MW-6	06/20/13	<0.50	<0.50	<0.50	<0.50	<50	15	<5.0	20.72		133.55			no odor / no sheen

Notes:
TPHg = Total Petroleum Hydrocarbons as gasolin nm = not measured
TPHd = Total Petroleum Hydrocarbons as diesel ns = not sampled
MTBE = Methyl Tertiary-Butyl Ether nc = not calculated
< = less than the specified laboratory detection lim na = not analyzed
ppb = parts per billion

T.O.C. = Top of casing GW = Groundwater
Depths and Elevations recorded in feet.

Monitoring well casing tops resurveyed in November 2010
to Global Positioning System (GPS) coordinates.

ATTACHMENT A

HORIZON FIELD METHODS AND PROCEDURES

AND

SITE HISTORY INFORMATION

HORIZON ENVIRONMENTAL INC.
GROUNDWATER MONITORING
FIELD METHODS AND PROCEDURES

The following section describes field procedures that will be conducted by Horizon Environmental Inc. (Horizon) personnel in performance of the tasks involved with this project.

1.0 HEALTH AND SAFETY PLAN

Fieldwork performed by Horizon and subcontractors at the site will be conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document that describes the hazards that may be encountered in the field and specifies personal protective equipment, work procedures, and emergency information. A copy of the SHSP will be at the site and available for reference by appropriate parties during work at the site. The site health and safety plan shall comply with health and safety guidelines in the Horizon Health and Safety Program Handbook. -

2.0 GROUNDWATER DEPTH EVALUATION

Each monitoring well is opened and allowed to equalize to atmospheric pressure prior to sounding. Depth-to-water is measured to the nearest 0.01-foot using an electronic, hand-held, water-level indicator. The measuring point is the survey mark on the top of the well casing. The tip of the probe is examined in order to evaluate for the presence or absence of separate–phase product (SPP).

3.0 MONITORING WELL PURGING & SAMPLING

Prior to purging, a clean, transparent bailer is lowered into the well, and a sample of groundwater is hoisted to the surface. The sample fluid is inspected for the presence of SPP on its surface. If no SPP is observed, sampling activities conducted subsequent to the initial well development activity will be preceded by purging a minimum of three well volumes by hand-bailing or the use of an electrically-operated pump. Purge water will be containerized in properly labeled drums or tanks for proper transport from the site and disposal. Purge water will be monitored for the parameters of temperature, pH, and electrical conductivity until stabilized or the completion of the calculated purge volume. If required, field readings for dissolved oxygen (dO_2), recorded to one decimal place, will be obtained utilizing hand-held instruments.

If SPP is observed, then either an interface probe will be lowered into the well to measure the thickness of the separate-phase liquid fuel, or a disposable plastic bailer will be lowered into the well approximately ½ to ¾ way through the air- SPP -water interface, and hoisted to the surface to measure the thickness of the separate-phase liquid fuel in the bailer.

A well is allowed to recharge to at least 80% of its pre-purge volume prior to sampling. If a well dewaters, it will be allowed to recharge for a minimum of one to two hours prior to sampling. After the water level within the well has stabilized or a reasonable time has passed, a sample is collected within a clean, disposable, bailer lowered into the well approximately ½ to ¾ way through the air water interface and hoisted to the surface.

4.0 SAMPLE PREPARATION & TRANSPORT FOR LABORATORY ANALYSIS

Water samples will be transferred directly from the bailer to laboratory-supplied appropriate containers, labeled, stored in a chilled environment (cooler), and transported to a California DHS-certified laboratory for analysis. Samples will be analyzed within the EPA-specified holding time for the requested analysis. Each sample container submitted for analysis will have a label affixed to identify the job number, sample date, time of sample collection, and a sample number unique to that sample.

A chain-of-custody form will be used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the responsible technician or geologist relinquishes custody of the samples by signing the chain-of-custody form, noting the date and time. The sample-control officer at the laboratory:

- verifies sample integrity;
- confirms storage in the proper container;
- recognizes that an adequate volume of fluid has been collected for the required analysis;
- identifies the method of preservation; and
- accepts custody for the laboratory when these conditions have been satisfied.

Site Description

The Site is located on the southwestern corner of the intersection of Redwood Road and Grove Way in Castro Valley, California, as shown on the Site Location Map (Figure 1). The Site is bounded by Grove Way to the north, Redwood Road to the east, a vacant office building to the south, and residential apartments to the west. Chevron #9-2960 was formerly located at 2416 Grove Avenue, northeast of the Site and across the intersection of Grove Avenue and Redwood Road. The Chevron site is an open Fuel Leak case (RWQCB Case No. 01-0346 and ACDEH Case No. 0275).

Existing Site facilities include a 7-11 convenience store and other commercial buildings situated on the western portion of the Site property, and a parking lot and landscaping areas situated on the central and eastern portions of the Site. Former service station facilities included eight former USTs located in the southern portion of the Site, six former dispenser islands, and associated former fuel distribution piping located in the northern and eastern portions of the Site. There are currently six groundwater monitoring wells (MW-1 through MW-6) associated with this Site. Wells MW-1 through MW-4 are located within the property boundaries, while well MW-5A is located offsite to the west within the North Sixth Street right-of-way, and well MW-6 is located offsite to the south on the adjoining Kashikar property, as shown on the Site Map (Figure 2).

Site Background

Prior to 1981, the Site had been leased and operated by Shell Oil Company (Shell). Ultramar leased the Site and operated a retail service station (Beacon No. 574) from 1981 to 1987. Information provided by Ultramar indicates that the former Beacon Site facilities included four former fuel USTs located in the southeastern portion of the property and one former waste-oil UST located in the southwestern portion of the property. These USTs were removed by Ultramar in 1987. Three former fuel USTs located to the west of the former Beacon USTs existed and were removed by Shell Oil Company sometime prior to 1981 (Acton, Mickelson, van Dam, Inc., November 1994). Acton, Mickelson, van Dam, Inc. (AMD) indicated that at least one previous generation of USTs had been installed and used at the Site by Shell, however, no records have been located with the ACDEH and local fire department for the removal of the previous generation of Shell USTs. According to the 1994 AMD report, Ultramar was not aware of any specific incidents in which gasoline leaked from or was spilled during filling of any of the former Beacon USTs in use during their Site lease period (AMD, 1994).

The five former Beacon USTs were removed from the Site on May 5, 1987. These USTs consisted of one 500-gallon waste oil UST (Tank T1), two 5,000-gallon diesel USTs (Tanks T2 and T4), an 8,000-gallon gasoline UST (Tank T3), and a 7,000-gallon gasoline UST (Tank T5), as shown on the Site Plan (Figure 2). Records made available by Ultramar

indicate that these USTs were originally installed and owned by Shell (AMD, 1994). Analytical results of soil samples collected at the time of the UST removals indicated the presence of petroleum constituents in soil underlying the USTs. Over-excavation of the UST basin to a depth of approximately 20 feet below surface grade (bsg) was performed in May 1987 by Ultramar. After completion of the over-excavation work, laboratory analysis of seven soil samples collected at the limit of the over-excavation indicated concentrations of 125.5, 208.7, and 1,989 milligrams per kilogram (mg/Kg or parts per million [ppm]) of total volatile hydrocarbons (AMD, 1994) primarily along the northern side of the over-excavated UST basin.

Various investigations have been performed at the Site since 1987. A detailed summary of the investigations performed between 1987 and 2008 are presented in the Site Conceptual Model, Human Health Risk Analysis, and [Draft] Corrective Action Plan (Horizon, August 22, 2012). The following investigations were performed at the Site since 2009:

- May 2009: High-vacuum dual-phase extraction (HVDPE) remedial testing was performed at the Site. Approximately 220 pounds of vapor-equivalent Total Petroleum Hydrocarbons as gasoline (TPHg) and 1.6 pounds of vapor-equivalent Benzene were removed from the subsurface, and approximately 1,660 gallons of groundwater were extracted from wells MW-1 and MW-2 during the 48 hours of remedial testing. The results of the testing indicated HVDPE is effective in extracting gasoline vapors from the vadose zone soils beneath the former USTs, and in capturing impacted groundwater from beneath the Site, as reported in the High Vacuum Dual-Phase Extraction Testing Report (Horizon, June 30, 2009).

- December 2009: Five direct-push soil gas probes (SG-1 through SG-5) were advanced onsite to collect and analyze soil gas samples. The analytical soil gas results indicated that elevated concentrations of gasoline hydrocarbons were present primarily in shallow soil gas samples SG-1 and SG-3 located near the former USTs and dispensers. The highest concentrations were encountered in sample location SG-3, which was located adjacent to the front of the commercial building at the Site, as reported in the Soil Gas Survey and Soil Assessment Report (Horizon, January 2010).

- December 2009: Five onsite borings (B-1 through B-5) were advanced to collect subsurface soil and groundwater samples. The boring locations were selected based on approximate locations of the former USTs and dispenser islands. The analytical soil and groundwater results indicated that elevated concentrations of petroleum hydrocarbons are present in saturated soils beneath the western portion of the former UST basin, and are also present in unsaturated and saturated soils beneath the former eastern dispenser islands, as reported in the Soil Gas Survey and Soil Assessment Report (Horizon, January 2010).

- October 2010: One of two proposed offsite direct-push soil gas probes was advanced to collect and analyze soil gas samples. Only temporary offsite soil gas probe SG-7 to the south of the Site was advanced, as no access was granted for offsite soil gas probe SG-6 proposed to the west of the Site. The laboratory analytical results indicate that the soil gas concentrations were below the Region 2 ESL and CHHSL listed values for residential and commercial sites at offsite location SG-7 on the Kashikar property located to the south of the Site at 22341 Redwood Road, as reported in the Subsurface Investigation Report (Horizon, December 2010).

- October 2010: Three onsite vapor extraction wells (VW-1, VW-2 and VW-3), three onsite vapor probe wells (VP-1, VP-2 and VP-3), and one offsite replacement groundwater monitoring well (MW-5A) were installed in their respective borings. Laboratory analytical results of soil samples collected from onsite borings VW-2 (north of the former Shell USTs), VW-3 (south of the former Shell USTs), and VP-2 (northwest of the former Shell USTs) indicated the presence of diesel and gasoline hydrocarbons at depths between 10 to 20 feet bsg. No concentrations of diesel and gasoline hydrocarbons were reported from soil samples from onsite borings VW-1 (just north of the former eastern dispensers), VP-1 (west of the former Shell USTs), and VP-3 (west of the former western dispensers). No concentrations of gasoline hydrocarbons were reported from soil samples from offsite boring MW-5A installed in North Sixth Street, as reported in the Subsurface Investigation Report (Horizon, December 2010), and shown on the Site Area Map (Figure 3).

- July 2011: Soil vapor extraction (SVE) remedial testing was performed at the Site. During the 65-hour vapor extraction test (VET), approximately 471 pounds of TPHg and 0.84-pound of benzene were removed from the subsurface via wells MW-1 and MW-2. The results of the VET indicated that standard SVE will also effectively remove gasoline hydrocarbons from unsaturated subsurface soils at depths of approximately 10 to 20 feet bsg beneath the Site, as presented in the Report on Soil Vapor Extraction Testing dated (Horizon, August 23, 2011).

Groundwater monitoring and sampling has been performed at the Site since 1992. Historical groundwater level data has indicated that groundwater has been present beneath the Site between the depths of approximately 14 to 22 feet bsg, and the direction of groundwater flow beneath the Site has been consistently to the south or southwest. Dissolved concentrations of TPHg, BTEX, and MTBE have been reported for groundwater samples collected from onsite wells MW-1 and MW-2, and dissolved concentrations of MTBE have been reported for groundwater samples collected from offsite wells MW-5A and MW-6.

The Site Conceptual Model, Human Health Risk Analysis, and [Draft] Corrective Action Plan (Horizon, August 22, 2012) was submitted to the ACDEH, and uploaded to their FTP site. After review of the [Draft] CAP report, and allowance for public comments, the ACDEH issued their approval of the proposed work scope (ACDEH, November 6, 2012).

ATTACHMENT B

HORIZON MONITORING WELL DATA SHEETS

AND

PURGE WATER DISPOSAL DOCUMENTATION

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL
OBSERVATION SUMMARY SHEET

Company Former Beacon Station #12574	Job No. 1574.49
Location 22315 Redwood Rd.	Date 6-20-13
City Castro Valley	Time 1100-1200

Well I.D.	Total Well Depth	Depth to Liquid	Hydrocarbon Thickness	Measurement Point TOB or TOC	Comments
MW-1	29.83	22.47			4
MW-2	29.67	20.92			4
MW-3	29.51	21.11			4
MW-4	28.04	16.79			2
MW-5A	30.15	14.68			2
MW-6	29.98	20.72			2

Comments:

Sampler: C. Klejwa Assistant: _____

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL DATA

Client/Site No. Former Beacon Station #12574	Project No. 1574.49
Address 22315 Redwood Rd, Castro Valley	Date 6-20-13
Well No. MW-1	Temp./Weather 87° Sunny

(T.D. - D.T.W.) x °VF = Casing Volume				
(30	- 22.47)	x 0.66	= 4.97	~ 5 gals.

°VF = gal/ft	2" : 0.17	4" : 0.66
	3" : 0.38	8" : 1.50

DTW for 80% Column Recharge	= 23.97

Purge Start Time: 1525								SAMPLE
Gallons Purged	5	10	15	20				20
Time	1530	1538	1559	1612				1651
Conductivity	874	837	816	807				798
pH	7.0	7.2	7.2	7.2				7.2
Temperature (°F)	70	71	72	72				68
Turbidity	L	L	L	L				L
Product/Sheen	N	N	N	N				N
Odor	Y	Y	Y	Y				Y
							D.O. =	2.2
							O.R.P. =	125

Purging Equipment: 12V. Pump	D.T.W. After Purging: 27.59 @ Sample Time: 23.92
Sampling Equipment: Bailer	Total Volume Purged: 4
Sample Containers: 4 HCl VOAs	Total Gallons Purged: 20
H_2O Stored? PolyTank → Instrat	

Comments:

C. Klejwa
Technician

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL DATA

Client/Site No. Former Beacon Station #12574	Project No. 1574.49
Address 22315 Redwood Rd. Castro Valley	Date 6-20-13
Well No. MW-2	Temp./Weather 83° Sunny

(T.D. - D.T.W.) x °VF = Casing Volume				
(30	- 20.92)	x 0.66	= 5.99	~ 6 gals.

°VF = gal/ft	2" : 0.17	4" : 0.66
	3" : 0.38	8" : 1.50

DTW for 80% Column Recharge	= 22.73

Purge Start Time: 1627								SAMPLE
Gallons Purged	6	12	18	24				24
Time	1631	1635	1641	1655				1725
Conductivity	1127	1089	1071	1037				1017
pH	7.2	7.1	7.0	7.1				7.1
Temperature (°F)	69	69	69	68				67
Turbidity	L	L	L	L				L
Product/Sheen	N	N	N	N				N
Odor	Y	Y	Y	Y				Y
							D.O. =	1.4
							O.R.P. =	62

Purging Equipment: 12 V. Pump
Sampling Equipment: Bailer
Sample Containers: 4 HCL VOAs
H_2O Stored? Poly Tank → Instrat

D.T.W. After Purging: 25.15 @ Sample Time: 22.59
Total Volume Purged: 4
Total Gallons Purged: 24

Comments:

C. Klejwa
Technician

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL DATA

Client/Site No. Former Beacon Station #12574	Project No. 1574.49
Address 22315 Redwood Rd. Castro Valley	Date 6-20-13
Well No. MW-3	Temp./Weather 82° Sunny

(T.D. - D.T.W.) x °VF = Casing Volume				
(30	- 21.11)	x 0.66	= 5.87	~ 6 gals.

°VF = gal/ft	2" : 0.17	4" : 0.66
	3" : 0.38	8" : 1.50

DTW for 80% Column Recharge	= 22.88

Purge Start Time: 1309								SAMPLE
Gallons Purged	6	12	18	24				24
Time	1313	1318	1325	1334				1350
Conductivity	498	502	493	492				496
pH	7.8	7.7	7.7	7.6				7.6
Temperature (°F)	69	69	69	70				70
Turbidity	L	L	L	L				L
Product/Sheen	N	N	N	N				N
Odor	N	N	N	N				N
							D.O. =	1.7
							O.R.P. =	108

Purging Equipment: 12 V. Pump
Sampling Equipment: Bailer
Sample Containers: 4 HCl VOAs
H_2O Stored? Poly Tank → Instrat

D.T.W. After Purging: 24.16 @ Sample Time = 22.77
Total Volume Purged: 4
Total Gallons Purged: 24

Comments:

C. Klejwa
Technician

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL DATA

Client/Site No. Former Beacon Station #12574	Project No. 1574.49
Address 22315 Redwood Rd, Castro Valley	Date 6-20-13
Well No. MW-4	Temp./Weather 76° Sunny

(T.D. - D.T.W.) x °VF = Casing Volume				
(30	- 16.79)	x 0.17	= 2.25	~ 3 gals.

°VF = gal/ft	2" : 0.17	4" : 0.66
	3" : 0.38	8" : 1.50

DTW for 80% Column Recharge	= 19.43

Purge Start Time: 1228								SAMPLE
Gallons Purged	3	6	9	12				12
Time	1231	1234	1237	1240				1250
Conductivity	721	718	714	720				708
pH	7.9	7.8	7.8	7.8				7.8
Temperature (°F)	68	66	66	65				66
Turbidity	L	L	L-M	L-M				L-M
Product/Sheen	N	N	N	N				N
Odor	N	N	N	N				N
							D.O. =	0.6
							O.R.P. =	146

Purging Equipment: 12 V. Pump	D.T.W. After Purging: 17.33
Sampling Equipment: Bailer	Total Volume Purged: 4
Sample Containers: 4 HCl VOAs	Total Gallons Purged: 12
H_2O Stored? PolyTank → Instrat	

Comments:

C. Klejwa
Technician

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL DATA

Client/Site No. Former Beacon Station #12574	Project No. 1574.49
Address 22315 Redwood Rd. Castro Valley	Date 6-20-13
Well No. MW-5A	Temp./Weather 85° Sunny

(T.D. - D.T.W.) x °VF = Casing Volume				
(30.15	- 14.68)	x 0.17	= 2.63	~ 3 gals.

°VF = gal/ft	2" : 0.17	4" : 0.66
	3" : 0.38	8" : 1.50

DTW for 80% Column Recharge	= 17.77

Purge Start Time: 1400								SAMPLE
Gallons Purged	3	6	9	12				12
Time	1402	1404	1406	1408				1420
Conductivity	380	404	414	409				404
pH	7.3	7.3	7.2	7.1				7.1
Temperature (°F)	70	68	68	70				69
Turbidity	L	L	L	L				L
Product/Sheen	N	N	N	N				N
Odor	N	N	N	N				N
							D.O. =	4.3
							O.R.P. =	120

Purging Equipment: 12 V. Pump
Sampling Equipment: Bailer
Sample Containers: 4 HCl VOAs
H_2O Stored? Poly Tank → Instrat

D.T.W. After Purging: 15.59
Total Volume Purged: 4
Total Gallons Purged: 12

Comments:

C. Klejwa

Technician

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL DATA

Client/Site No. Former Beacon Station #12574	Project No. 1574.49
Address 22315 Redwood Rd. Castro Valley	Date 6-20-13
Well No. MW-6	Temp./Weather 87° Sunny

(T.D. - D.T.W.) x °VF = Casing Volume				
(30	- 20.72)	x 0.17	= 1.58	~ 2 gals.

°VF = gal/ft	2" : 0.17	4" : 0.66
	3" : 0.38	8" : 1.50

DTW for 80% Column Recharge	= 22.57

Purge Start Time: 1440								SAMPLE
Gallons Purged	2	4	6	8				8
Time	1442	1444	1446	1448				1500
Conductivity	850	848	846	854				858
pH	7.2	7.2	7.2	7.1				7.1
Temperature (°F)	71	70	70	71				70
Turbidity	L	L	L	L				L
Product/Sheen	N	N	N	N				N
Odor	N	N	N	N				N
							D.O. =	1.6
							O.R.P. =	133

Purging Equipment: 12 V. Pump
Sampling Equipment: Bailer
Sample Containers: 4 HCl VOAs
H_2O Stored? Poly Tank → Instrat

D.T.W. After Purging: 20.97
Total Volume Purged: 4
Total Gallons Purged: 8

Comments:

C. Klejwa
Technician

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address
ULTRAMAR # 12574
22315 REDWOOD RD
CASTRO VALLEY, CA

HORIZON ENV

4. Generator's Phone ( )

5. Transporter 1 Company Name
HORIZON ENV

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
[redacted]
1180 C AIRPORT RD
RIO VISTA, CA 94571

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone (707) [redacted]

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-HAZ MONITORING WELL WATER	01	POLY	115	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
GRAY, FINES, ODOR PRESENT

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Cera Klejwa signing for Ultramar	C. Klejwa	6	21	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
MICHAEL WHITEHEAD		6	21	13

NON-HAZARDOUS WASTE

ATTACHMENT C

ANALYTICAL REPORT

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Laboratory Results

Ken Mateik
Horizon Environmental
4970 Windplay Drive, Suite 5
El Dorado Hills, CA 95762

Subject : 6 Water Samples
Project Name : Former Beacon 12574-SAM
Project Number : 1574.49
P.O. Number : WO 129528

Dear Mr. Mateik,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Subject : 6 Water Samples
Project Name : Former Beacon 12574-SAM
Project Number : 1574.49
P.O. Number : WO 129528

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample MW-1 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**
Project Number : **1574.49**

Sample : **MW-1** Matrix : Water Lab Number : 85224-01
Sample Date :06/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	**140**	0.50	ug/L	EPA 8260B	06/26/13 09:51
Toluene	**5.6**	0.50	ug/L	EPA 8260B	06/26/13 09:51
Ethylbenzene	**34**	0.50	ug/L	EPA 8260B	06/26/13 09:51
Total Xylenes	**69**	0.50	ug/L	EPA 8260B	06/26/13 09:51
Methyl-t-butyl ether (MTBE)	**6.4**	0.50	ug/L	EPA 8260B	06/26/13 09:51
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:51
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:51
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:51
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/13 09:51
TPH as Gasoline	**2300**	50	ug/L	EPA 8260B	06/26/13 09:51
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:51
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:51
1,2-Dichloroethane-d4 (Surr)	97.7		% Recovery	EPA 8260B	06/26/13 09:51
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	06/26/13 09:51

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**
Project Number : **1574.49**

Sample : **MW-2** Matrix : Water Lab Number : 85224-02
Sample Date :06/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	**2800**	5.0	ug/L	EPA 8260B	06/27/13 18:16
Toluene	**52**	5.0	ug/L	EPA 8260B	06/27/13 18:16
Ethylbenzene	**200**	5.0	ug/L	EPA 8260B	06/27/13 18:16
Total Xylenes	**92**	5.0	ug/L	EPA 8260B	06/27/13 18:16
Methyl-t-butyl ether (MTBE)	**77**	5.0	ug/L	EPA 8260B	06/27/13 18:16
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	06/27/13 18:16
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	06/27/13 18:16
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	06/27/13 18:16
Tert-Butanol	**48**	25	ug/L	EPA 8260B	06/27/13 18:16
TPH as Gasoline	**12000**	500	ug/L	EPA 8260B	06/27/13 18:16
1,2-Dichloroethane	< 5.0	5.0	ug/L	EPA 8260B	06/27/13 18:16
1,2-Dibromoethane	< 5.0	5.0	ug/L	EPA 8260B	06/27/13 18:16
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	06/27/13 18:16
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	06/27/13 18:16

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**
Project Number : **1574.49**

Sample : **MW-3** Matrix : Water Lab Number : 85224-03
Sample Date :06/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/13 09:55
TPH as Gasoline	**150**	50	ug/L	EPA 8260B	06/26/13 09:55
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 09:55
1,2-Dichloroethane-d4 (Surr)	95.7		% Recovery	EPA 8260B	06/26/13 09:55
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	06/26/13 09:55

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**
Project Number : **1574.49**

Sample : **MW-4** Matrix : Water Lab Number : 85224-04
Sample Date :06/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/13 13:44
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/26/13 13:44
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 13:44
1,2-Dichloroethane-d4 (Surr)	95.7		% Recovery	EPA 8260B	06/26/13 13:44
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	06/26/13 13:44

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**
Project Number : **1574.49**

Sample : **MW-5A** Matrix : Water Lab Number : 85224-05
Sample Date :06/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/13 14:17
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/26/13 14:17
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 14:17
1,2-Dichloroethane-d4 (Surr)	97.3		% Recovery	EPA 8260B	06/26/13 14:17
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	06/26/13 14:17

KIFF Analytical LLC

Report Number : 85224
Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**
Project Number : **1574.49**

Sample : **MW-6** Matrix : Water Lab Number : 85224-06
Sample Date :06/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Methyl-t-butyl ether (MTBE)	**15**	0.50	ug/L	EPA 8260B	06/26/13 15:55
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/13 15:55
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/26/13 15:55
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/13 15:55
1,2-Dichloroethane-d4 (Surr)	96.4		% Recovery	EPA 8260B	06/26/13 15:55
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	06/26/13 15:55

Report Number : 85224

Date : 06/28/2013

QC Report : Method Blank Data

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/27/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/27/2013
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/27/2013
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	06/27/2013
Toluene - d8 (Surr)	99.0		%	EPA 8260B	06/27/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/26/2013
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
1,2-Dichloroethane-d4 (Surr)	96.7		%	EPA 8260B	06/26/2013
Toluene - d8 (Surr)	97.9		%	EPA 8260B	06/26/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/26/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/26/2013
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	06/26/2013
1,2-Dichloroethane-d4 (Surr)	98.9		%	EPA 8260B	06/26/2013
Toluene - d8 (Surr)	99.3		%	EPA 8260B	06/26/2013

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 85224

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dibromoethane														
	85244-06	<0.50	40.3	40.3	42.3	42.3	ug/L	EPA 8260B	6/27/13	105	105	0.0924	70.0-130	25
1,2-Dichloroethane														
	85244-06	<0.50	40.0	40.0	39.2	39.3	ug/L	EPA 8260B	6/27/13	98.1	98.3	0.229	70.0-130	25
Benzene														
	85244-06	<0.50	40.0	40.0	39.5	39.0	ug/L	EPA 8260B	6/27/13	98.7	97.5	1.15	70.0-130	25
Diisopropyl ether														
	85244-06	<0.50	39.3	39.3	40.6	40.0	ug/L	EPA 8260B	6/27/13	103	102	1.49	70.0-130	25
Ethyl-tert-butyl ether														
	85244-06	<0.50	40.1	40.1	43.4	43.5	ug/L	EPA 8260B	6/27/13	108	108	0.212	70.0-130	25
Ethylbenzene														
	85244-06	<0.50	40.0	40.0	40.7	40.6	ug/L	EPA 8260B	6/27/13	102	102	0.225	70.0-130	25
Methyl-t-butyl ether														
	85244-06	<0.50	39.9	39.9	39.9	39.8	ug/L	EPA 8260B	6/27/13	100	99.7	0.313	70.0-130	25
P + M Xylene														
	85244-06	<0.50	40.0	40.0	41.1	40.8	ug/L	EPA 8260B	6/27/13	103	102	0.661	70.0-130	25
Tert-Butanol														
	85244-06	<5.0	202	202	208	209	ug/L	EPA 8260B	6/27/13	103	104	0.347	70.0-130	25
Tert-amyl-methyl ether														
	85244-06	<0.50	40.3	40.3	44.3	43.7	ug/L	EPA 8260B	6/27/13	110	108	1.50	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 85224

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene														
	85244-06	<0.50	40.0	40.0	39.7	39.3	ug/L	EPA 8260B	6/27/13	99.3	98.4	0.923	70.0-130	25
1,2-Dibromoethane														
	85224-03	<0.50	40.3	40.3	40.5	39.6	ug/L	EPA 8260B	6/26/13	100	98.3	2.13	70.0-130	25
1,2-Dichloroethane														
	85224-03	<0.50	40.0	40.0	39.7	39.3	ug/L	EPA 8260B	6/26/13	99.2	98.2	1.07	70.0-130	25
Benzene														
	85224-03	<0.50	40.0	40.0	39.0	38.4	ug/L	EPA 8260B	6/26/13	97.6	96.0	1.63	70.0-130	25
Diisopropyl ether														
	85224-03	<0.50	39.3	39.3	36.1	35.7	ug/L	EPA 8260B	6/26/13	91.8	90.8	1.11	70.0-130	25
Ethyl-tert-butyl ether														
	85224-03	<0.50	40.1	40.1	39.8	39.4	ug/L	EPA 8260B	6/26/13	99.1	98.3	0.853	70.0-130	25
Ethylbenzene														
	85224-03	<0.50	40.0	40.0	42.1	41.4	ug/L	EPA 8260B	6/26/13	105	104	1.55	70.0-130	25
Methyl-t-butyl ether														
	85224-03	<0.50	39.9	39.9	37.6	37.3	ug/L	EPA 8260B	6/26/13	94.2	93.5	0.810	70.0-130	25
P + M Xylene														
	85224-03	<0.50	40.0	40.0	40.4	40.2	ug/L	EPA 8260B	6/26/13	101	100	0.528	70.0-130	25

Report Number : 85224

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol														
	85224-03	<5.0	202	202	201	202	ug/L	EPA 8260B	6/26/13	99.9	100	0.150	70.0-130	25
Tert-amyl-methyl ether														
	85224-03	<0.50	40.3	40.3	40.9	39.9	ug/L	EPA 8260B	6/26/13	101	99.0	2.32	70.0-130	25
Toluene														
	85224-03	<0.50	40.0	40.0	40.1	39.5	ug/L	EPA 8260B	6/26/13	100	98.8	1.52	70.0-130	25
1,2-Dibromoethane														
	85224-01	<0.50	40.3	40.3	42.6	41.2	ug/L	EPA 8260B	6/26/13	106	102	3.29	70.0-130	25
1,2-Dichloroethane														
	85224-01	<0.50	40.0	40.0	40.5	39.2	ug/L	EPA 8260B	6/26/13	101	98.0	3.22	70.0-130	25
Benzene														
	85224-01	140	40.0	40.0	169	164	ug/L	EPA 8260B	6/26/13	72.8	**60.4**	18.6	70.0-130	25
Diisopropyl ether														
	85224-01	<0.50	39.3	39.3	42.5	41.2	ug/L	EPA 8260B	6/26/13	108	105	2.98	70.0-130	25
Ethyl-tert-butyl ether														
	85224-01	<0.50	40.1	40.1	45.0	43.7	ug/L	EPA 8260B	6/26/13	112	109	3.02	70.0-130	25
Ethylbenzene														
	85224-01	34	40.0	40.0	69.8	68.3	ug/L	EPA 8260B	6/26/13	90.3	86.5	4.33	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 85224

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether														
	85224-01	6.4	39.9	39.9	49.4	47.8	ug/L	EPA 8260B	6/26/13	108	104	3.72	70.0-130	25
P + M Xylene														
	85224-01	65	40.0	40.0	101	98.5	ug/L	EPA 8260B	6/26/13	88.6	83.3	6.14	70.0-130	25
Tert-Butanol														
	85224-01	<5.0	202	202	223	219	ug/L	EPA 8260B	6/26/13	111	109	1.80	70.0-130	25
Tert-amyl-methyl ether														
	85224-01	<0.50	40.3	40.3	43.8	43.1	ug/L	EPA 8260B	6/26/13	109	107	1.78	70.0-130	25
Toluene														
	85224-01	5.6	40.0	40.0	46.0	44.6	ug/L	EPA 8260B	6/26/13	101	97.5	3.56	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dibromoethane	40.0	ug/L	EPA 8260B	6/27/13	107	70.0-130
1,2-Dichloroethane	39.7	ug/L	EPA 8260B	6/27/13	97.5	70.0-130
Benzene	39.7	ug/L	EPA 8260B	6/27/13	98.1	70.0-130
Diisopropyl ether	39.0	ug/L	EPA 8260B	6/27/13	103	70.0-130
Ethyl-tert-butyl ether	39.8	ug/L	EPA 8260B	6/27/13	106	70.0-130
Ethylbenzene	39.7	ug/L	EPA 8260B	6/27/13	103	70.0-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	6/27/13	98.5	70.0-130
P + M Xylene	39.7	ug/L	EPA 8260B	6/27/13	103	70.0-130
TPH as Gasoline	508	ug/L	EPA 8260B	6/27/13	96.6	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	6/27/13	103	70.0-130
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	6/27/13	106	70.0-130
Toluene	39.7	ug/L	EPA 8260B	6/27/13	99.0	70.0-130
1,2-Dibromoethane	40.5	ug/L	EPA 8260B	6/26/13	99.0	70.0-130
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	6/26/13	98.9	70.0-130
Benzene	40.2	ug/L	EPA 8260B	6/26/13	96.6	70.0-130
Diisopropyl ether	39.5	ug/L	EPA 8260B	6/26/13	92.1	70.0-130
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	6/26/13	99.1	70.0-130
Ethylbenzene	40.2	ug/L	EPA 8260B	6/26/13	103	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	6/26/13	93.6	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	6/26/13	99.4	70.0-130
TPH as Gasoline	507	ug/L	EPA 8260B	6/26/13	97.7	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	6/26/13	99.9	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 85224

QC Report : Laboratory Control Sample (LCS)

Date : 06/28/2013

Project Name : **Former Beacon 12574-SAM**

Project Number : **1574.49**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Tert-amyl-methyl ether	40.5	ug/L	EPA 8260B	6/26/13	99.9	70.0-130
Toluene	40.2	ug/L	EPA 8260B	6/26/13	99.4	70.0-130
1,2-Dibromoethane	40.5	ug/L	EPA 8260B	6/26/13	104	70.0-130
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	6/26/13	98.9	70.0-130
Benzene	40.2	ug/L	EPA 8260B	6/26/13	100	70.0-130
Diisopropyl ether	39.5	ug/L	EPA 8260B	6/26/13	105	70.0-130
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	6/26/13	112	70.0-130
Ethylbenzene	40.2	ug/L	EPA 8260B	6/26/13	104	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	6/26/13	107	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	6/26/13	102	70.0-130
TPH as Gasoline	503	ug/L	EPA 8260B	6/26/13	110	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	6/26/13	105	70.0-130
Tert-amyl-methyl ether	40.5	ug/L	EPA 8260B	6/26/13	108	70.0-130
Toluene	40.2	ug/L	EPA 8260B	6/26/13	101	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC
2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 85224

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): KEN MATEIK

California EDF Report? ☑ Yes ☐ No

Company / Address: Horizon Environmental
4970 Windplay Drive, Suite 5, El Dorado Hills, CA 95762

Sampling Company Log Code: HEIE

Phone #: 916 - 939 - 2170

Fax #: 916 - 939 - 2172

Global ID: **T0600100155**

Project #: **1574.49**

P.O. #: **WO 129528**

EDF Deliverable To (Email Address): kiffanalytical.com

Project Name: **Former Beacon 12574-SAM**

Sampler Signature: C. Klejwa

Project Address: **22315 Redwood Road Castro Valley, CA 94546**

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Ice	Matrix: WATER	Matrix: Soil	Matrix: Air	Analysis Request: MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	Analysis Request: MTBE (EPA 8260B) @ 0.5 ppb	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH Gas (EPA 8260B)	Analysis Request: 5 Oxygenates (EPA 8260B)	Analysis Request: 7 Oxygenates (EPA 8260B)	Analysis Request: Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Analysis Request: Volatile Halocarbons (EPA 8260B)	Analysis Request: Volatile Organics Full List (EPA 8260B)	Analysis Request: Volatile Organics (EPA 524.2 Drinking Water)	Analysis Request: TPH as Diesel (EPA 8015M)	Analysis Request: TPH as Motor Oil (EPA 8015M)	Analysis Request: Total Lead (EPA 6010)	Analysis Request: W.E.T. Lead (STLC)	TAT	For Lab Use Only
MW-1	6-20-13	1651	4					X			X	X					X	X	X		X								1 wk	01
MW-2		1725	4					X			X	X					X	X	X		X								1 wk	02
MW-3		1350	4					X			X	X					X	X	X		X								1 wk	03
MW-4		1250	4					X			X	X					X	X	X		X								1 wk	04
MW-5A		1420	4					X			X	X					X	X	X		X								1 wk	05
MW-6	6-20-13	1500	4					X			X	X					X	X	X		X								1 wk	06

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☑ 1 wk

Relinquished by:	Date	Time	Received by:
Cera Klejwa / C. Klejwa	6-24-13	1040	
	062413	1040	Received by Laboratory: KIFF Analytical LLC

Remarks:

STANDARD TURN AROUND TIME (One Week)

Bill to: ULTRAMAR Inc.
Attention: Mr. Roger Levin

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 85224	**TAT:** ☒ Standard	☐ Rush	☐ Split	☐ None	
Sample Receipt	**Initials/Date:** TJB 062413	**Storage Time:** 1338	**Sample Login**	**Initials/Date:** MAS/062413	
Method of Receipt:	☒ Courier	☐ Over-the-counter	☐ Shipped	Shipping Custody Seals	☒ N/A ☐ Intact ☐ Broken

Temp °C 3.6 ☐ N/A	Therm ID IR-1	Time 1333	Coolant present ☒ Yes ☐ No ☐ Water	☐ Temp Excursion

Chain-of-Custody:	**Yes**	**No**
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	**COC**	**Labels**	**Discrepancies:**
Sample ID	X	X	
Project ID	X	X	
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?	☐ N/A	☒ Yes	☐ No

Samples:	**N/A**	**Yes**	**No**
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?		X	
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?		X	
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments:

Receipt Details:

Matrix	Container Type	# of Containers
WA	VOA	24

CS Required: ☐

Proceed With Analysis: ☐ YES ☐ NO Init/Date:
Client Communication:

ATTACHMENT D

HISTORICAL GROUNDWATER DATA

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-1	156.55	03/27/92	22.43	134.12	-
		06/04/92	23.40	133.15	-
		09/23/92	24.07	132.48	-
		11/12/92	24.16	132.39	29.33
		02/02/93	21.87	134.68	29.80
		05/07/93	22.58	133.97	29.84
		05/18/93	22.66	133.89	-
		08/11/93	23.41	133.14	29.81
		11/05/93	24.09	132.46	29.81
		03/01/94	22.76	133.79	29.85
		06/02/94	23.24	133.31	29.85
		09/09/94	23.93	132.62	29.86
		12/20/94	22.94	133.61	29.85
		03/08/95	22.20	134.35	29.71
		06/14/95	22.65	133.90	29.70
		09/26/95	23.44	133.11	29.71
		12/27/95	23.04	133.51	29.72
		03/26/96	21.39	135.16	29.71
		06/05/96	22.43	134.12	29.73
		09/16/96	24.42	132.13	29.74
		12/02/96	23.14	133.41	29.75
		03/10/97	22.30	134.25	29.76
		06/12/97	22.97	133.58	29.76
		09/29/97	23.35	133.20	29.78
		12/01/97	22.73	133.82	29.79
		03/19/98	20.56	135.99	29.78
		05/28/98	21.78	134.77	29.76
		08/31/98	22.64	133.91	29.78
		12/08/98	22.87	133.68	29.76
		02/17/99	21.53	135.02	29.75
		06/10/99	22.74	133.81	29.74
		09/07/99	23.06	133.49	29.73
		12/13/00	23.06	133.46	29.74
		3/16/00	20.66	135.89	29.75
		6/12/00	22.53	134.02	29.76
		9/5/00	22.73	133.82	29.74
		11/13/00	23.20	133.35	29.74
		2/26/01	21.75	134.80	29.73
		6/12/01	22.70	133.85	29.73
		9/21/01	23.40	133.15	29.73
MW-2	155.17	03/27/92	20.82	134.35	-
		06/04/92	21.81	133.36	-
		09/23/92	22.45	132.72	-
		11/12/92	22.60	132.57	29.71

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
		02/02/93	20.28	134.89	29.73
		05/07/93	20.97	134.20	29.73
		05/18/93	21.06	134.11	-
		08/11/93	21.85	133.32	29.70
		11/05/93	22.32	132.85	29.70
		03/01/94	21.19	133.98	29.68
		06/02/94	21.59	133.58	29.69
		09/09/94	22.33	132.84	29.66
		12/20/94	21.37	133.80	29.65
		03/08/95	20.60	134.57	29.52
		06/14/95	21.04	134.13	29.54
		09/26/95	21.84	133.33	29.53
		12/27/95	21.44	133.73	29.56
		03/26/96	19.81	135.36	29.56
		06/05/96	20.83	134.34	29.59
		09/16/96	21.93	133.24	29.58
		12/02/96	21.54	133.63	29.58
		03/10/97	20.71	134.46	29.58
		06/12/97	21.41	133.76	29.52
		09/29/97	21.26	133.91	29.51
		12/01/97	20.97	134.20	29.50
		03/19/98	18.98	136.19	29.51
		05/28/98	20.22	134.95	29.50
		08/31/98	21.09	134.08	29.51
		12/08/98	21.31	133.86	29.50
		02/17/99	20.02	135.15	29.51
		06/10/99	21.30	133.87	29.50
		09/07/99	21.49	133.68	29.50
		12/13/99	21.52	133.65	29.50
		3/16/00	19.13	136.04	29.50
		6/12/00	20.93	134.24	29.50
		9/5/00	21.15	134.02	29.50
		11/13/00	21.66	133.51	29.50
		2/26/01	20.17	135.00	29.50
		6/12/01	21.15	134.02	29.50
		9/21/01	21.63	133.54	29.50
MW-3	157.13	03/27/92	21.46	135.67	-
		06/04/92	22.34	134.79	-
		09/23/92	22.84	134.29	-
		11/12/92	23.04	134.09	29.55
		02/02/93	21.03	136.10	29.45
		05/07/93	21.59	135.54	29.53
		05/18/93	21.73	135.40	-
		08/11/93	22.31	134.82	29.41
		11/05/93	22.85	134.28	29.41

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
		03/01/94	21.97	135.16	29.55
		06/02/94	22.29	134.84	29.56
		09/09/94	22.91	134.22	29.56
		12/20/94	22.11	135.02	29.54
		03/08/95	21.40	135.73	29.38
		06/14/95	21.80	135.33	29.36
		09/26/95	22.38	134.75	29.37
		12/27/95	22.07	135.06	29.37
		03/26/96	20.73	136.40	29.38
		06/05/96	21.54	135.59	29.40
		09/16/96	22.37	134.76	29.43
		12/02/96	22.35	134.78	29.45
		03/10/97	21.44	135.69	29.47
		06/12/97	21.97	135.16	29.45
		09/29/97	22.30	134.83	29.45
		12/01/97	21.78	135.35	29.46
		03/19/98	19.88	137.25	29.46
		05/28/98	20.91	136.22	29.47
		08/31/98	21.61	135.52	29.47
		12/08/98	21.83	135.30	29.47
		02/17/99	20.81	130.32	29.45
		06/10/99	21.61	135.52	29.45
		09/07/99	21.91	135.22	29.45
		12/13/99	21.93	135.20	29.44
		3/16/00	19.86	137.27	29.46
		6/12/00	21.61	135.52	29.46
		9/5/00	21.54	135.59	29.47
		11/13/00	21.98	135.15	29.46
		2/26/01	20.65	136.48	29.46
		6/12/01	21.70	135.43	29.46
		9/21/01	22.05	135.07	29.46
MW-4	151.96	05/18/93	17.55	134.41	-
		08/11/93	17.50	134.46	28.43
		11/05/93	15.84	136.12	28.43
		03/01/94	17.35	134.61	28.11
		06/02/94	17.68	134.28	28.12
		09/09/94	18.19	133.77	28.13
		12/20/94	17.52	134.44	28.10
		03/08/95	16.82	135.14	27.97
		06/14/95	17.22	134.74	27.97
		09/26/95	17.79	134.17	27.91
		12/27/95	17.47	134.49	27.89
		03/26/96	16.32	135.64	27.89
		06/05/96	17.10	134.86	27.88
		09/16/96	17.85	134.11	27.89

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
		12/02/96	17.59	134.37	27.88
		03/10/97	16.79	135.17	27.89
		06/12/97	17.49	134.47	27.90
		09/29/97	18.33	133.63	27.91
		12/01/97	17.36	134.60	27.90
		03/19/98	15.90	136.06	27.91
		05/28/98	16.34	135.62	27.90
		08/31/98	16.83	135.13	27.90
		12/08/98	17.37	134.59	27.91
		02/17/99	16.49	135.47	27.98
		06/10/99	17.63	134.33	24.76
		09/07/99	17.80	134.16	24.75
		12/13/99	17.82	134.14	24.73
		3/16/00	15.81	136.15	24.71
		6/12/00	16.64	135.32	24.70
		9/5/00	16.71	135.25	24.70
		11/13/00	17.24	134.72	24.70
		2/26/01	15.83	136.13	24.70
		6/12/01	16.80	135.16	24.70
		9/21/01	17.30	134.66	24.71
MW-5	148.68	05/18/93	15.72	132.96	-
		08/11/93	16.42	132.26	28.43
		11/05/93	16.92	131.76	28.43
		03/01/94	15.54	133.14	28.11
		06/02/94	16.19	132.49	28.12
		09/09/94	16.87	131.81	28.13
		12/20/94	15.87	132.84	28.10
		03/08/95	15.11	133.57	27.97
		06/14/95	15.69	132.99	27.97
		09/26/95	16.46	132.22	27.91
		12/27/95	15.91	132.77	27.89
		03/26/96	14.31	134.37	27.89
		06/05/96	15.43	133.25	27.88
		09/16/96	16.52	132.16	27.89
		12/02/96	16.05	132.63	27.88
		03/10/97	14.80	133.88	27.89
		06/12/97	15.95	132.78	27.90
		09/29/97	16.33	132.35	27.91
		12/01/97	15.48	133.20	27.90
		03/19/98	13.16	135.52	27.91
		05/28/98	14.04	134.64	27.90
		08/31/98	14.81	133.87	27.90
		12/08/98	15.75	132.93	27.91
		02/17/99	14.80	133.88	27.98
		06/10/99	15.54	133.14	24.76

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
		09/07/99	16.01	132.67	24.75
		12/13/99	16.21	132.47	24.73
		3/16/00	14.35	134.33	29.60
		6/12/00	15.21	133.47	29.61
		9/5/00	15.80	132.88	29.60
		11/13/00	16.21	132.47	29.60
		2/26/01	14.71	133.97	29.61
		6/12/01	15.72	132.96	29.60
		9/21/01	16.21	132.47	29.60
MW-6	153.96	05/18/93	20.80	133.16	-
		08/11/93	21.64	132.32	31.15
		11/05/93	22.11	131.85	31.15
		03/01/94	20.80	133.16	29.96
		06/02/94	21.37	132.59	29.98
		09/09/94	22.05	131.91	29.96
		12/20/94	21.06	132.90	29.89
		03/08/95	20.29	133.67	29.67
		06/14/95	20.81	133.15	29.65
		09/26/95	21.62	132.34	29.66
		12/27/95	21.12	132.84	29.63
		03/26/96	19.50	134.46	29.60
		06/05/96	20.56	133.40	29.63
		09/16/96	21.70	132.26	29.65
		12/02/96	21.25	132.71	29.66
		03/10/97	20.16	133.80	29.64
		06/12/97	21.16	132.80	29.62
		09/29/97	21.51	132.45	29.62
		12/01/97	20.89	133.07	29.61
		03/19/98	18.71	135.25	29.60
		05/28/98	19.99	133.97	29.62
		08/31/98	20.81	133.15	29.63
		12/08/98	21.00	132.96	29.64
		02/17/99	19.54	134.42	29.63
		06/10/99	20.74	133.22	27.98
		09/07/99	21.23	132.73	27.98
		12/13/99	21.22	132.74	27.98
		3/16/00	18.79	135.17	27.99
		6/12/00	20.49	133.47	27.99
		9/5/00	20.95	133.01	27.98
		11/13/00	21.44	132.52	27.98
		2/26/01	19.86	134.10	27.99
		6/12/01	20.91	133.05	27.98
		9/21/01	21.22	132.74	27.99
MW-7	156.09	05/18/93	22.64	133.45	-

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
		08/11/93	23.25	132.84	30.75
		11/05/93	23.93	132.16	30.75
		03/01/94	22.72	133.37	30.11
		06/02/94	23.22	132.87	30.12
		09/09/94	23.90	132.19	30.12
		12/20/94	22.98	133.11	30.10
		03/08/95	22.14	133.95	29.91
		06/14/95	22.61	133.48	29.91
		09/26/95	23.43	132.66	29.90
		12/27/95	23.01	133.08	29.90
		03/26/96	21.32	134.77	29.87
		06/05/96	22.37	133.72	29.91
		09/16/96	23.51	132.58	29.90
		12/02/96	23.08	133.01	29.91
		03/10/97	21.94	134.15	29.90
		06/12/97	22.96	133.13	29.88
		09/29/97	23.35	132.74	29.87
		12/01/97	22.68	133.41	29.88
		03/19/98	20.52	135.57	29.88
		05/28/98	21.76	134.33	29.88
		08/31/98	22.66	133.43	29.86
		12/08/98[3]			
MW-8	158.04	05/18/93	21.55	136.49	-
		08/11/93	22.43	135.61	34.82
		11/05/93	23.00	135.04	34.82
		03/01/94	22.05	135.99	34.04
		06/02/94	22.29	135.75	34.04
		09/09/94	22.99	135.05	34.04
		12/20/94	22.14	135.90	33.98
		03/08/95	21.25	136.79	34.48
		06/14/95	21.70	136.34	34.49
		09/26/95	22.29	135.75	34.40
		12/27/95	21.96	136.08	34.43
		03/26/96	20.48	137.56	34.42
		06/05/96	21.50	136.54	34.41
		09/16/96	22.38	135.66	34.43
		12/02/96	22.39	135.65	34.42
		03/10/97	20.89	137.16	34.43
		06/12/97	21.80	136.24	34.42
		09/29/97	22.81	135.23	34.40
		12/01/97	21.70	136.34	34.41
		03/19/98	19.35	138.69	34.42
		05/28/98	20.52	137.52	34.41
		08/31/98	21.40	136.64	34.40
		12/08/98[3]			

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)

NOTES:
1 : Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 : Elevation reference to mean sea level.
Well Depth : Measured from top of casing to bottom of well.
3 : Well abandoned.

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	03/27/92	5,600	<50	<50	760	900	230	1,100	-
	06/04/92	2,600	<800	NA	270	57	230	440	-
	09/23/92	3,400	NA	NA	480	430	110	550	-
	11/12/92	2,700	NA	NA	5.8	<5.0	140	340	-
	02/02/93	8,500	NA	NA	760	770	250	1,200	-
	05/07/93	7,700	NA	NA	970	630	280	1,500	-
	08/11/93	11,000	NA	NA	1,400	1,000	280	1,600	-
	11/05/93	36,000	NA	NA	6,200	4,700	1,400	7,100	-
	03/01/94	3,800	NA	NA	580	490	110	620	-
	06/02/94	8,900	NA	NA	1,900	1,200	480	2,100	-
	09/09/94	4,300	NA	NA	740	290	200	630	-
	12/20/94	3,900	NA	NA	550	260	150	510	-
	03/08/95	8,100	NA	NA	1,100	540	250	1,100	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	8,600	NA	NA	2,100	550	420	1,300	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	21,000	NA	NA	7,000	2,700	590	7,000	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	13,000	NA	NA	3,200	770	420	2,900	1,400
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	30,000	NA	NA	7,300	1,900	850	7,100	1,100
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	25,000	NA	NA	840	5,500	920	920	4,000
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	90,000	NA	NA	15,000	7,000	3,300	20,000	<1,500
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	50,000	NA	NA	9,900	1,500	2,100	9,400	890
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	30,000	NA	NA	8,000	1,100	2,200	10,000	720
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	37,000	NA	NA	13,000	410	2,000	10,000	570
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	59,000	NA	NA	9,600	430	2,100	9,200	730
	6/12/00	NS	NS	NS	NS	NS	NS	NS	NS
	9/5/00	49,000	NA	NA	8,000	230	2,100	6,400	740
	11/13/00	NS	NS	NS	NS	NS	NS	NS	NS
	2/26/01	56,000	NA	NA	7,000	240	2,000	6,800	620
	6/12/01	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	9/21/01	23,000	NA	NA	4,600	75	1,200	2,300	450
MW-2	03/27/92	18,000	<50	<50	2,400	2,300	870	3,300	-
	06/04/92	14,000	<5,000	NA	1,900	1,700	580	2,300	-
	09/23/92	22,000	NA	NA	2,100	1,500	760	2,900	-
	11/12/92	29,000	NA	NA	2,400	860	540	3,500	-
	02/02/93	24,000	NA	NA	2,700	1,900	590	2,600	-
	05/07/93	19,000	NA	NA	1,800	1,300	460	2,600	-
	08/11/93	23,000	NA	NA	2,300	1,500	550	2,300	-
	11/05/93	30,000	NA	NA	3,100	2,900	860	3,700	-
	03/01/94	13,000	NA	NA	1,500	490	350	1,100	-
	06/02/94	12,000	NA	NA	2,000	790	460	1,300	-
	09/09/94	13,000	NA	NA	1,800	660	440	1,000	-
	12/20/94	16,000	NA	NA	2,300	1,000	650	1,900	-
	03/08/95	16,000	NA	NA	2,200	1,000	550	2,100	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	18,000	NA	NA	2,500	1,000	770	2,700	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	33,000	NA	NA	4,200	2,600	1,000	5,000	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	19,000	NA	NA	2,600	490	560	2,000	940
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	23,000	NA	NA	3,700	870	650	3,000	1,400
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	30,000	NA	NA	4,900	880	990	3,800	1,400
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	72,000	NA	NA	14,000	9,500	2,300	11,000	<1,500
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	29,000	NA	NA	4,900	1,600	960	3,900	890
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	26,000	NA	NA	5,200	930	1,200	4,400	640
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	32,000	NA	NA	5,700	600	1200	3,500	1,100
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	38,000	NA	NA	4,900	780	1,100	3,700	870
	6/12/00	NS	NS	NS	NS	NS	NS	NS	NS
	9/5/00	21,000	NA	NA	3,400	490	730	2,200	1,000
	11/13/00	NS	NS	NS	NS	NS	NS	NS	NS
	2/26/01	33,000	NA	NA	5,200	260	1,400	3,200	740

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	6/12/01	NS	NS	NS	NS	NS	NS	NS	NS
	9/21/01	63,000	NA	NA	4,400	180	1,000	2,000	730
MW-3	03/27/92	160	<50	<50	9.2	4.8	10	23	-
	06/04/92	120	<50	NA	7.5	2.7	0.5	15	-
	09/23/92	220	NA	NA	8.3	4.3	62	19	-
	11/12/92	230	NA	NA	12	5.5	77	19	-
	02/02/93	86	NA	NA	2.4	0.71	27	6.2	-
	05/07/93	140	NA	NA	2.6	1.2	39	8.4	-
	08/11/93	490	NA	NA	15	8.1	14	37	-
	11/05/93	820	NA	NA	45	24	34	93	-
	03/01/94	410	NA	NA	7.4	2.7	56	10	-
	06/02/94	440	NA	NA	13	4.9	14	31	-
	09/09/94	620	NA	NA	12	4.8	97	20	-
	12/20/94	770	NA	NA	24	11	16	36	-
	03/08/95	300	NA	NA	6.1	0.97	4.8	7.5	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	130	NA	NA	4.8	1.6	4.8	9.4	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	170	NA	NA	10	2.9	44	15	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	84	NA	NA	2.3	<0.50	14	2.6	<5.0
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	740	NA	NA	61	9.8	42	61	<5.0
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	320	NA	NA	6.7	1.0	10	9.3	3.4
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	310	NA	NA	<5.0	8.6	1.8	13	14
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	99	NA	NA	4.2	0.51	4.0	3.0	<5.0
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	6/12/00	NS	NA	NA	NS	NS	NS	NS	NS
	9/5/00	240	NA	NA	3.0	0.53	9.6	4.0	<5.0
	11/13/00	NS	NA	NA	NS	NS	NS	NS	NS

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	2/26/01	**100**	NA	NA	**0.84**	<0.50	**3.5**	**1.7**	**0.84**
	6/12/01	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/01[3]	-	-	-	-	-	-	-	
MW-4	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	NS	NS	NS	NS	NS	NS	NS	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	NS	NS	NS	NS	NS	NS	NS	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	NS	NS	NS	NS	NS	NS	NS	NS
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/00	NS	NS	NS	NS	NS	NS	NS	NS
	9/5/00	NS	NS	NS	NS	NS	NS	NS	NS
	11/13/00	NS	NS	NS	NS	NS	NS	NS	NS
	2/26/01	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/01	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/01[3]	-	-	-	-	-	-	-	-
MW-5	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
MW-5	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
(cont.)	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/26/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	12/27/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	03/26/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	06/05/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	15
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	20
	12/02/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	12
	03/10/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	7.0
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	7.2
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	12/08/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	02/17/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	06/10/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	09/07/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/13/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	6/12/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	9/5/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	11/13/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	2/26/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	6/12/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	8/27/01[3]	-	-	-	-	-	-	-	-
MW-6	05/18/93	170	NA	NA	<0.5	<0.5	<0.5	<0.5	
	08/11/93	78	NA	NA	<0.5	<0.5	<0.5	<0.5	
	11/05/93	170	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/01/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/02/94	190	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/09/94	140	NA	NA	<0.5	<0.5	<0.5	<0.5	
	12/20/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5	

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	03/08/95	180[1]	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/14/95	220[1]	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/26/95	110[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	
	12/27/95	130[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	
	03/08/95	100[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	
MW-6	06/05/96	100[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	430
(cont.)	09/16/96	170	NA	NA	<0.50	<0.50	<0.50	<0.50	430
	12/02/96	160	NA	NA	<0.50	<0.50	<0.50	<0.50	160
	03/10/97	140	NA	NA	<0.50	<0.50	<0.50	<0.50	390
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	330
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	130
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	200
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	240
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	290
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	290
	12/08/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	230
	02/17/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	200
	06/10/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	290
	09/07/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	230
	12/13/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	180
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	260
	6/12/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	160
	9/5/00	<50	NA	NA	<0.50	0.50	<0.50	0.81	170
	11/13/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	190
	2/26/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	130
	6/12/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	96
	8/27/01[3]	-	-	-	-	-	-	-	-
MW-7	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/01/94	60	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/26/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	12/27/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	03/08/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	06/05/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	20
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	26
	12/02/96	140	NA	NA	<0.50	<0.50	<0.50	<0.50	140
	03/10/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	29
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	28
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	27
MW-7	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	29
(cont.)	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	6.0
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	25
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	20
	12/08/98[2]								
MW-8	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	NS	NS	NS	NS	NS	NS	NS	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS
	12/08/98[2]								

Notes:
<: Below indicated detection limit.
NS : Not sampled.
NA: Not Analyzed.

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)

[1] : Product not typical gasoline.
[2] : Well abandoned
[3] : As directed by Alameda County, Monitoring wells not sampled.

ATTACHMENT E

GEOTRACKER ELECTRONIC DATA DELIVERABLE

CONFIRMATION SHEETS

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**GEO_WELL**
Report Title:	**1574-Q213**
Facility Global ID:	**T0600100155**
Facility Name:	**BEACON #12574**
File Name:	**GEO_WELL.zip**
Organization Name:	**Horizon Environmental Inc.**
Username:	**HORIZON**
IP Address:	**99.189.173.198**
Submittal Date/Time:	**7/23/2013 12:11:42 PM**
Confirmation Number:	**2361270964**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

SUCCESS

Your GEO_REPORT file has been successfully submitted!

Submittal Type:	GEO_REPORT
Report Title:	12589-SAMR-3Q12
Report Type:	Monitoring Report - Semi-Annually
Report Date:	1/22/2013
Facility Global ID:	T0600100155
Facility Name:	BEACON #12574
File Name:	12574-SAMR-3Q12.pdf
Organization Name:	Horizon Environmental Inc.
Username:	HORIZON
IP Address:	69.12.226.3
Submittal Date/Time:	1/23/2013 10:55:21 AM
Confirmation Number:	3800474047