



HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

RO 355

~~355~~

November 4, 2004

Mr. Amir K. Gholami
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Alameda County
NOV 6 8 2004
Environmental Health

Subject: **Transmittal of Semi-Annual Monitoring Report**
Third Quarter 2004
Former Beacon Station 12574
22315 Redwood Road, Castro Valley, California

Mr. Gholami:

At the request of Ultramar Inc., Horizon Environmental Inc. (Horizon) is forwarding the enclosed *Quarterly Groundwater Monitoring* dated November 3, 2004. The report documents results of third quarter 2004 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. Steve Coodey, Ultramar Inc.
Mr. Richard Hiatt, Regional Water Quality Control Board, San Francisco Bay Region
Mr. Bill Courtney



HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

November 3, 2004

Mr. Steve Coodey
Ultramar Inc.
685 West Third Street
Hanford, California 93230

Subject: **Semi-Annual Groundwater Monitoring Report**
Third Quarter 2004
Former Beacon Station No. 12574
22315 Redwood Road, Castro Valley, California

RECEIVED
NOV 08 2004
HORIZON ENVIRONMENTAL INC.

Mr. Coodey:

Horizon Environmental Inc. (Horizon) has prepared this report which documents third quarter 2004 groundwater monitoring at the above-referenced site, as shown on Figure 1. 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 wells MW-5 and MW-6 are located off-site to the west and south of the property on adjoining properties (Figure 2).

Groundwater Monitoring

Groundwater monitoring activities were conducted by Doulos Environmental Inc. (Doulos) on August 31, 2004 according to Ultramar Field Procedures (Attachment A). Monitoring activities included measurement of static groundwater levels, purging groundwater from the wells, collection of groundwater samples, and preparation and delivery of the water samples to the analytical laboratory by Doulos.

The depth to water (DTW) levels in the monitoring wells were measured to the nearest 0.01-foot from the top-of-casing (TOC) in monitoring wells MW-1, MW-2, MW-3 and MW-6. Wells MW-4 and MW-5 were not measured. The groundwater physical parameters of conductivity, pH and temperature were monitored with field instrumentation during the purging process. Groundwater levels and purge data are recorded on the Doulos Sampling Information Sheets (Attachment B).

Groundwater samples were collected from monitoring wells MW-1 and MW-2, and were submitted under chain-of-custody (COC) documentation to Kiff Analytical LLC, a California Department of Health Services-certified analytical laboratory (ELAP No. 2236) located in Davis, California. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg); the volatile aromatic compounds benzene, toluene, ethylbenzene and total xylenes

(BTEX); and the fuel oxygenate methyl-t-butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260B.

Groundwater Monitoring Results

Depth-to-groundwater measurements were subtracted from the surveyed historical TOC elevations to calculate groundwater elevations. Groundwater elevation data were used to construct the Groundwater Elevation Contour Map shown on Figure 2. The groundwater flow direction beneath the site is primarily towards the southwest at an average rate of 0.016 foot / foot.

Groundwater analytical results are summarized in Table 1. The distribution of TPHg, Benzene and MTBE analytical data are shown on Figure 3. The analytical report is contained in Attachment C. Historical groundwater data as reported by previous consultants is included as Attachment D.

GeoTracker Electronic Data Deliverables

The analytical electronic data deliverable (EDD) is uploaded by Kiff Analytical. The groundwater well measurement EDD (GEO_WELL) file for this quarterly monitoring event has not yet been uploaded by Horizon. Horizon is waiting for approval by the State GeoTracker system to upload the quarterly monitoring data for this site.

Report Distribution

We recommend a copy of this report be forwarded to:

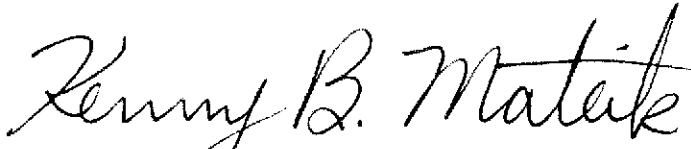
Mr. Amir K. Gholami
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Mr. Richard Hiatt
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612


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

Sincerely,

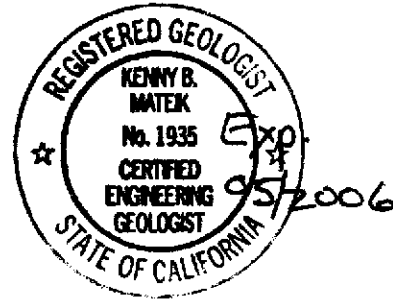
HORIZON ENVIRONMENTAL INC.



Kenny B. Matek
Registered Geologist, C.E.G. No. 1935



Karen P. Liptak
Staff Geologist



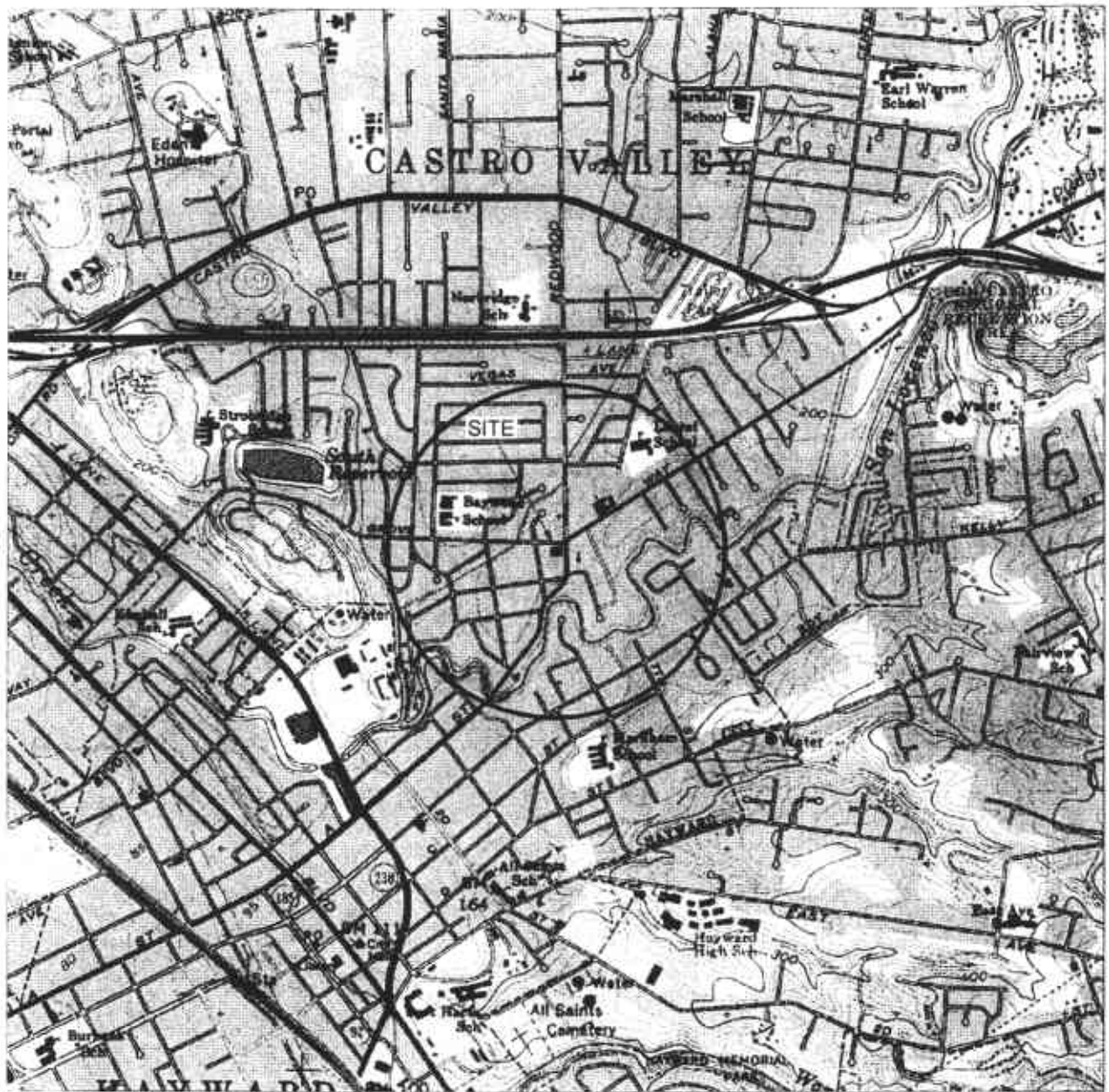
Attachments:

- Figure 1: Site Vicinity Map
- Figure 2: Site Map / Groundwater Elevation Contour Map
- Figure 3: Groundwater Analytical Summary

Table 1: Groundwater Monitoring Data

- Attachment A: Ultramar Field Procedures
- Attachment B: Doulos Sampling Information Sheets
- Attachment C: Analytical Report
- Attachment D: Historical Groundwater Data

cc: Mr. Bill Courtney, Property Manager



R 7 W

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



DIAGONAL LOCATION



SCALE 1:24,000



HORIZON ENVIRONMENTAL INC.

Project Number 1574 41
 Prepared By K Liptak
 Reviewed By K Matek

Drawn By M LaCoste
 Date 10/7/04
 Revised Date

SITE LOCATION MAP

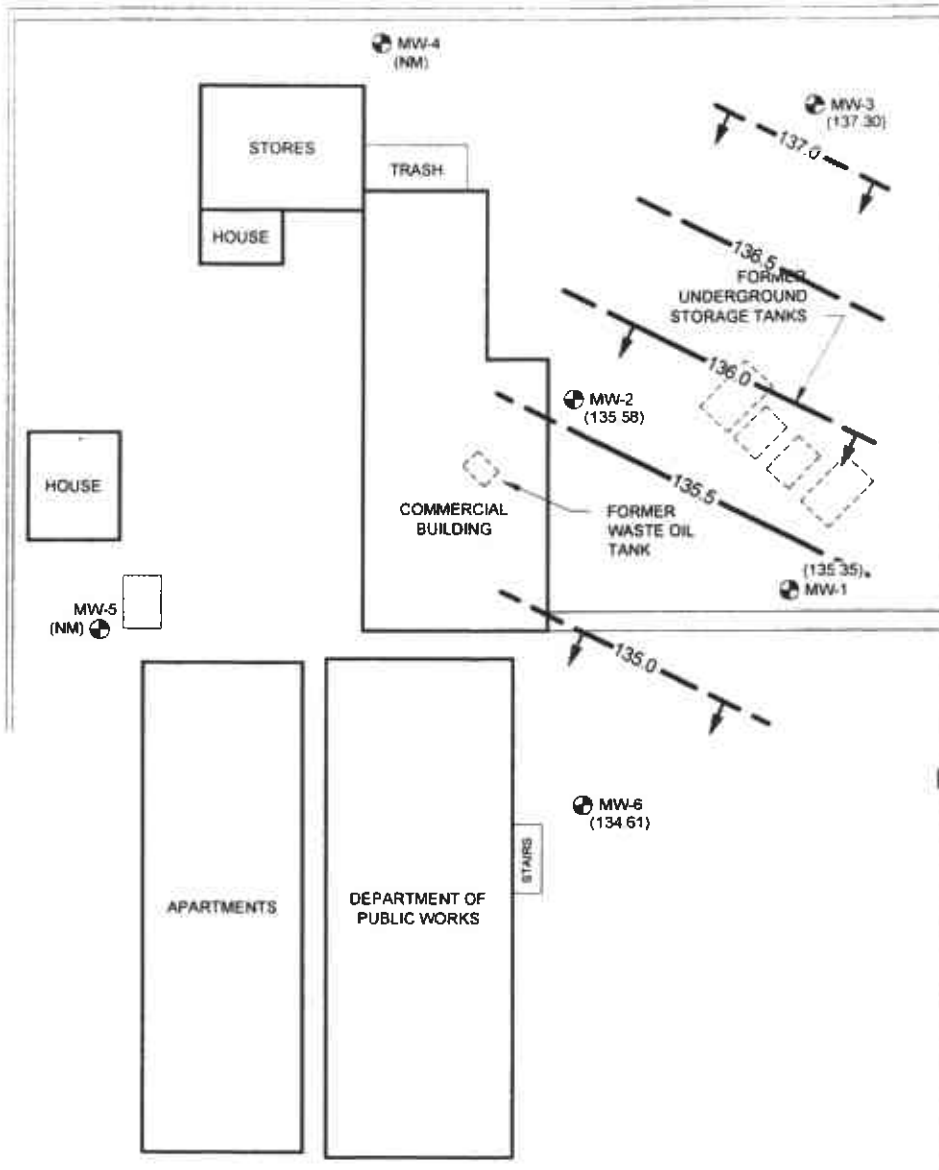
FORMER BEACON STATION NO. 12574
 22315 REDWOOD ROAD
 CASTRO VALLEY, CA.

FIGURE

1

GROVE WAY

MW-8 ■



LEGEND

- MW-1 MONITORING WELL LOCATION
- MW-8 ABANDONED MONITORING WELL LOCATION
- (135.35) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 136.0 — INFERRED WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
- ← GROUND WATER FLOW DIRECTION
- NM NOT MEASURED

DATE MEASURED: 8/31/04



APPROX. SCALE



HORIZON ENVIRONMENTAL INC.

Project Number: 1574 41
 Prepared By: K Liptak
 Reviewed By: K Mateik

Drawn By: M LaCoste
 Date: 10/7/04
 Revised Date:

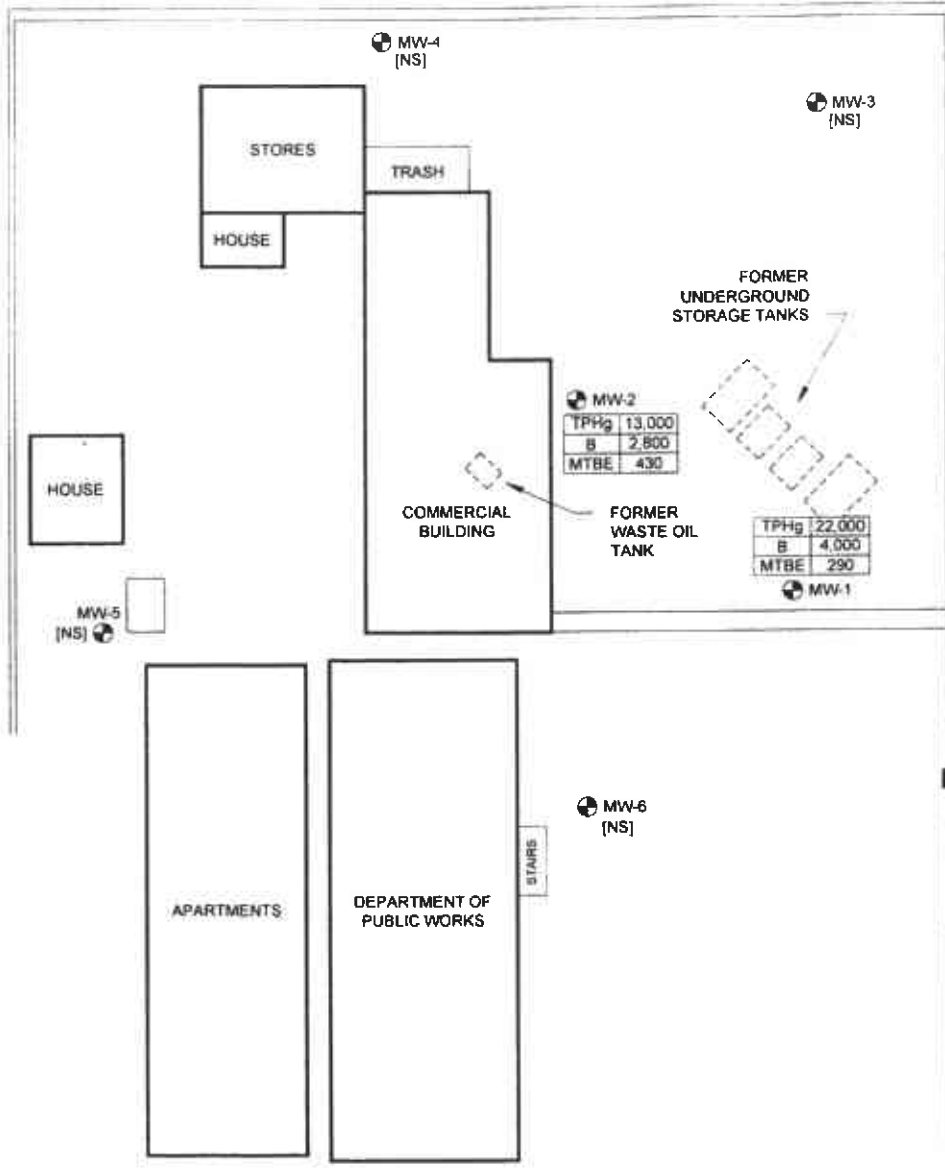
SITE PLAN/ GROUNDWATER
 ELEVATION CONTOUR MAP
 FORMER BEACON STATION NO. 12574
 22315 REDWOOD ROAD
 CASTRO VALLEY, CA.

FIGURE

2

GROVE WAY

MW-8 ■



LEGEND

- MW-1 MONITORING WELL LOCATION
- MW-8 ABANDONED MONITORING WELL LOCATION

TPHg	22,000	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN PARTS PER MILLION (ppm)
B	4,000	BENZENE CONCENTRATION IN ppm
MTBE	290	METHYL-TERT BUTYL ETHER IN ppm

NS NOT SAMPLED

WELLS SAMPLED: 8/31/04



APPROX SCALE



HORIZON ENVIRONMENTAL INC.

GROUNDWATER ANALYTICAL SUMMARY

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

FIGURE

3

Project Number: 1574 41
Prepared By: K. Liptak
Reviewed By: K. Mateik

Drawn By: M. LaCosta
Date: 10/7/04
Revised Date:

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

Well Number	Date	TPHg ppb	Benzene ppb	Toluene ppb	Ethylbenz. ppb	Xylenes ppb	MTBE ppb	Depth to GW	T.O.C. Elevation	GW Elevation	Comments
MW-1	02/11/02	41,000	7,600	160	1,600	4,200	640	22.58	158.70	136.12	no comments
	08/21/02	7,400	2,000	31	220	510	270	23.18		135.52	
	03/04/03	30,000	6,000	130	1,300	2,900	490	22.43		136.27	
	09/09/03	18,000	3,900	69	760	1,700	390	23.02		135.68	
	03/23/04	24,000	4,500	89	1,000	2,000	410	21.97		136.73	
	08/31/04	22,000	4,000	77	780	1,600	290	23.35		135.35	
MW-2	02/11/02	17,000	3,100	270	690	1,600	660	21.03	157.33	136.30	no comments
	08/21/02	6,800	1,600	44	290	260	440	21.60		135.73	
	03/04/03	20,000	3,400	200	590	1,100	670	20.86		136.47	
	09/09/03	19,000	3,200	120	630	940	630	21.45		135.88	
	03/23/04	18,000	3,200	110	640	740	580	20.41		136.92	
	08/31/04	13,000	2,800	59	510	420	430	21.75		135.58	
MW-3	02/11/02	ns	ns	ns	ns	ns	ns	21.55	159.23	137.68	no comments
	08/21/02	ns	ns	ns	ns	ns	ns	22.00		137.23	
	03/04/03	ns	ns	ns	ns	ns	ns	21.48		137.75	
	09/09/03	ns	ns	ns	ns	ns	ns	21.84		137.39	
	03/23/04	ns	ns	ns	ns	ns	ns	20.82		138.41	
	08/31/04	ns	ns	ns	ns	ns	ns	21.93		137.30	

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

Well Number	Date	TPHg ppb	Benzene ppb	Toluene ppb	Ethylbenz. ppb	Xylenes ppb	MTBE ppb	Depth to GW	T.O.C. Elevation	GW Elevation	Comments
MW-4	02/11/02	ns	ns	ns	ns	ns	ns	16.81	154.13	137.32	no comments
	08/21/02	ns	ns	ns	ns	ns	ns	17.58		136.55	
	03/04/03	ns	ns	ns	ns	ns	ns	16.70		137.43	
	09/09/03	ns	ns	ns	ns	ns	ns	17.48		136.65	
	03/23/04	ns	ns	ns	ns	ns	ns	16.35		137.78	
	08/31/04	ns	ns	ns	ns	ns	ns	nm		nm	
MW-5	02/11/02	ns	ns	ns	ns	ns	ns	15.70	150.73	135.03	unable to locate due to construction
	08/21/02	ns	ns	ns	ns	ns	ns	16.17		134.56	
	03/04/03	ns	ns	ns	ns	ns	ns	15.46		135.27	
	09/09/03	ns	ns	ns	ns	ns	ns	16.05		134.68	
	03/23/04	ns	ns	ns	ns	ns	ns	14.88		135.85	
	08/31/04	ns	ns	ns	ns	ns	ns	nm		nm	
MW-6	02/11/02	ns	ns	ns	ns	ns	ns	20.78	156.11	135.33	no comments
	08/21/02	ns	ns	ns	ns	ns	ns	21.41		134.70	
	03/04/03	ns	ns	ns	ns	ns	ns	20.64		135.47	
	09/09/03	ns	ns	ns	ns	ns	ns	21.23		134.88	
	03/23/04	ns	ns	ns	ns	ns	ns	20.21		135.90	
	08/31/04	ns	ns	ns	ns	ns	ns	21.50		134.61	

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 MTBE = Methyl Tertiary-Butyl Ether
 < = less than the specified laboratory detection limit
 ppb = parts per billion

nm = not measured
 ns = not sampled
 nc = not calculated
 na = not analyzed

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

ATTACHMENT A

ULTRAMAR FIELD PROCEDURES

ATTACHMENT A - ULTRAMAR FIELD PROCEDURES

The following section describes procedures used by field personnel in the performance of ground water sampling at Ultramar Inc. sites.

Ground Water Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01-foot.

Visual Analysis of Ground Water

Prior to purging and sampling ground water monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable, polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating product or the appearance of a petroleum product sheen. If measurable free product is noted in the bailer, a water/product interface probe is used to determine the thickness of the free product to the nearest 0.01-foot. The thickness of free product is determined by subtracting the depth to product from the depth to water.

Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately four casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electric conductivity of the purge water are monitored. The well is considered to be sufficiently purged when: The four casing volumes have been removed; the temperature, pH, and conductivity values have stabilized to within 10% of the initial readings; and the ground water being removed is relatively free of suspended solids. After purging, ground water levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed or pumped dry prior to removing the minimum volume of water, the ground water is allowed to recharge. If the well has recharged to within 80% of the initial depth to water reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial depth to water reading within two hours, the well is considered to contain formational water and a ground-water sample is collected. Ground water removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water well be recorded. If the free product thickness is reduced to the point where a measurable thickness is no longer present in the well, a ground water sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Ground water samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon™ side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. The Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency-specified hold times for the specified analytes.

ATTACHMENT B

DOULOS SAMPLING INFORMATION SHEETS

DOULOS ENVIRONMENTAL, INC.
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: Beacon # 12574 22315 Redwood Rd.

Date: 8-31-04

Castro Valley, Ca.

Project No.: 12574-25

Recorded by: _____

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
MW-1	7:59		23.35	29.73				
MW-2	7:56		21.75	29.50				
MW-3	7:50		21.93	29.46				
MW-4	7:41			24.71				
MW-5	—————→							NEW CONSTRUCTION COULD NOT LOCATE
MW-6	7:30		21.50	27.99				

Notes:

Client: Ultramar
 Site: Beacon #12574
22315 Redwood Rd.
Castro Valley, Ca.

Sampling Date: 8-31-04
 Project No.: _____
 Well Designation: MW-1

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 Height of well casing riser (in inches): 3
 Well cover type: 8" or 12" UV 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 7:59 Time: 9:50 Calculated purge: 16.5
 Depth of well: 29.73 Depth to water: 25.30 Actual purge: 16.5
 Depth to water: 23.35

Start purge: 8:35 Sampling time: 9:50

Time	Temperature	E.C.	pH	Turbidity	Volume
8:40	70.0	411	7.31		1
8:43	70.5	406	7.26		2
8:51	71.0	391	7.20		3
8:59	71.3	360	7.16		4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #12574
22315 Redwood Rd.
Castro Valley, Ca.

Sampling Date: 8-31-04
 Project No.: _____
 Well Designation: MW-2

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 7
 Well cover type: 8" or 12" UV 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 _____ 0.65 _____ 1.47 _____ 2.61 gal/ft.

Initial Measurement Recharge Measurement
 Time: 7:56 Time: 9:33 Calculated purge: 20.1
 Depth of well: 29.50 Depth to water: 23.81 Actual purge: 20.1
 Depth to water: 21.75

Start purge: 8:10 Sampling time: 9:34

Time	Temperature	E.C.	pH	Turbidity	Volume
8:14	69.5	4110	7.40		1
8:20	70.0	402	7.16		2
8:23	70.3	390	7.13		3
8:25	71.2	381	7.12		4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

ATTACHMENT C

ANALYTICAL REPORT



Report Number : 39957

Date : 9/13/2004

Ken Mateik
Horizon Environmental
5011 Golden Foothill Parkway, Suite 7
El Dorado Hills, CA 95762

Subject : 2 Water Samples
Project Name : Beacon
Project Number : 12574 Castro Valley
P.O. Number : 12574-27

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.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 39957

Date : 9/13/2004

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

Sample : MW-1

Matrix : Water

Lab Number : 39957-01

Sample Date :8/31/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	4000	10	ug/L	EPA 8260B	9/13/2004
Toluene	77	10	ug/L	EPA 8260B	9/13/2004
Ethylbenzene	780	10	ug/L	EPA 8260B	9/13/2004
Total Xylenes	1600	10	ug/L	EPA 8260B	9/13/2004
Methyl-t-butyl ether (MTBE)	290	100	ug/L	EPA 8260B	9/13/2004
TPH as Gasoline	22000	1000	ug/L	EPA 8260B	9/13/2004
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	9/13/2004
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	9/13/2004

Sample : MW-2

Matrix : Water

Lab Number : 39957-02

Sample Date :8/31/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2800	10	ug/L	EPA 8260B	9/10/2004
Toluene	59	10	ug/L	EPA 8260B	9/10/2004
Ethylbenzene	510	10	ug/L	EPA 8260B	9/10/2004
Total Xylenes	420	10	ug/L	EPA 8260B	9/10/2004
Methyl-t-butyl ether (MTBE)	430	100	ug/L	EPA 8260B	9/10/2004
TPH as Gasoline	13000	1000	ug/L	EPA 8260B	9/10/2004
Toluene - d8 (Surr)	114		% Recovery	EPA 8260B	9/10/2004
4-Bromofluorobenzene (Surr)	95.0		% Recovery	EPA 8260B	9/10/2004

Approved By:


Joel Kiff

Report Number : 39957

Date : 9/13/2004

QC Report : Method Blank Data

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/13/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/13/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/13/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/13/2004
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/13/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/13/2004
Toluene - d8 (Surr)	100		%	EPA 8260B	9/13/2004
4-Bromofluorobenzene (Surr)	98.1		%	EPA 8260B	9/13/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/10/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/10/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/10/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/10/2004
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/10/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/10/2004
Toluene - d8 (Surr)	116		%	EPA 8260B	9/10/2004
4-Bromofluorobenzene (Surr)	93.0		%	EPA 8260B	9/10/2004

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By: Joel Kiff



KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39957

Date : 9/13/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

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
Benzene	39961-07	<0.50	40.0	40.0	38.9	38.2	ug/L	EPA 8260B	9/10/04	97.2	95.6	1.62	70-130	25
Toluene	39961-07	<0.50	40.0	40.0	44.0	42.4	ug/L	EPA 8260B	9/10/04	110	106	3.72	70-130	25
Tert-Butanol	39961-07	<5.0	200	200	203	201	ug/L	EPA 8260B	9/10/04	102	101	0.975	70-130	25
Methyl-t-Butyl Ether	39961-07	<0.50	40.0	40.0	34.9	34.6	ug/L	EPA 8260B	9/10/04	87.2	86.4	0.955	70-130	25
Benzene	40028-01	<0.50	40.0	40.0	38.4	37.2	ug/L	EPA 8260B	9/13/04	96.0	93.0	3.14	70-130	25
Toluene	40028-01	<0.50	40.0	40.0	40.3	37.9	ug/L	EPA 8260B	9/13/04	101	94.7	6.22	70-130	25
Tert-Butanol	40028-01	<5.0	200	200	196	199	ug/L	EPA 8260B	9/13/04	98.1	99.5	1.44	70-130	25
Methyl-t-Butyl Ether	40028-01	1.5	40.0	40.0	35.1	36.4	ug/L	EPA 8260B	9/13/04	84.1	87.3	3.73	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39957

Date : 9/13/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	9/10/04	96.0	70-130
Toluene	40.0	ug/L	EPA 8260B	9/10/04	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/10/04	98.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/10/04	86.2	70-130
Benzene	40.0	ug/L	EPA 8260B	9/13/04	103	70-130
Toluene	40.0	ug/L	EPA 8260B	9/13/04	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/13/04	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/13/04	97.5	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff





2795 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. **39957** Page **1** of **1**

Project Contact (Hardcopy or PDF to):
 k. Mateik

EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company/Address:
 Horizon

Recommended but not mandatory to complete this section:
 Sampling Company Log Code: DEIO

Phone No.:
 939-2170

FAX No.:
 939-2172

Global ID: **T0600100155**

Project Number:
 12574 Castro Valley

P.O. No.:
 12574-27

EDF Deliverable to (Email Address):
 kmateik@horizonenvironmental.net

Project Name: Beacon

Project Address:
 Castro Valley

Analysis Request

Sampler Signature (below):

Edgar Jimenez

Sample Designation	Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONE	WATER	SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/MB015)	TPH as Diesel (MB015)	TPH as Motor Oil (MB015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
MW-1	8-31-04	9:50	3		X	X			X		X													12 hr/24 hr/48 hr/72 hr/1 wk	01
MW-2	✓ 9-3-04	9:34	3		X	X			X		X													✓	02

Relinquished by:	Date	Time	Received by: _____
Relinquished by: _____	Date	Time	Received by: _____
Relinquished by: _____	Date	Time	Received by Laboratory: <i>Jeremy D. [Signature]</i>

Remarks:

Bill to: **JOE ALDRIDGE**

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)
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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)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	9/21/01	23,000	NA	NA	4,600	75	1,200	2,300	450
	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)
MW-3	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
	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	

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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)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-4	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	-	-	-	-	-	-	-	-
	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	-

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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)	Ethylbenzene (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 (cont.)	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	-
	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)	Ethylbenzene (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 (cont.)	06/05/96	100 ¹	NA	NA	<0.50	<0.50	<0.50	<0.50	430
	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)	Ethylbenzene (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)	Ethylbenzene (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.									