Ultramar

Ultramar, Inc.
P.O. Box 466
525 W. Third Street
Hanford, CA 93232-0466
(209) 582-0241

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Telecopy: 209-585-5685 Credit
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

February 1, 1999

Ms. Eva Chu
Department of Environmental Health
Alameda County Health Care Services
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

SUBJECT: BEACON STATION NO. 604, 1619 FIRST STREET, LIVERMORE, CALIFORNIA

Dear Ms. Chu:

Enclosed is a copy of the Well Sampling report for the above-referenced Ultramar facility. As requested in our recent telephone conversation, two wells across the intersection on the shopping center property were sample. This was prompted by the property owner's request to have the remediation enclosure on the shopping center property removed.

The property owner is anxious to have the enclosure removed. Therefore, if Ultramar does not receive a response from Alameda County by February 15, 1999, arrangements will be made to dismantle the enclosure.

Please call if you have any questions regarding this site.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox

Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

Enclosures

cc w/encl: Mr. Cecil Fox, San Francisco Bay Region, RWQCB
Walter and Dorothy Anderson, 1091 Buckingham Drive, Los Altos, CA 94024

DOULOS ENVIRONMENTAL COMPANY
1537 PINE VALLEY CIRCLE
ROSEVILLE, CA 95661
(916) 782-9054

January 22, 1999

Air sparge well MW-W exceeds SSTL of 3,000 ppb benzene. Fox says Safeway may want enclosure space for add'l parking. Fox will sample add'l air sparge wells to verify GW quality around MW-W:

Mr. Terrence Fox
Ultramar Inc.
525 West Third Street
Hanford, California 93232-0466

Subject: **Well Sampling, Beacon Station #604,** 1619 First St., Livermore, California

Dear Mr. Fox:

This letter-report documents the results of ground-water monitoring conducted on December 16, 1998, at the subject site. The monitoring included measurements of depth to ground-water, subjective analysis for free product, ground-water purging and collection of ground-water samples. All field activities pertaining to events in this report were conducted according to the Ultramar Field Procedures included in the Attachments.

Ground-water samples were collected from two air sparge wells in the Safeway Parking Lot (see figure). Field Sample sheets are enclosed. Both samples were analyzed for concentrations of TPH as gasoline, modified EPA Method 8015, and BTEX and MTBE by EPA Method 602.

Results can be seen in the attached laboratory report. The chain-of-custody form for the current sampling event is also enclosed.

A copy of this monitoring report should be forwarded to the following party:

Alameda County Environmental Health Department
Environmental Protection Division
Attention: Eva Chu
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

If you have any questions or comments, please contact us at (916) 782-9054.

Sincerely,

DOULOS ENVIRONMENTAL COMPANY

Hal Hansen

Hal Hansen, R.G.#6697
enclosures

REGISTERED GEOLOGIST
HAL E. HANSEN
No. 6697
STATE OF CALIFORNIA

FIELD PROCEDURE

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

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 probed 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 measruements are taken to the nearest 0.01-foot.

Visual Analysis of Ground Water

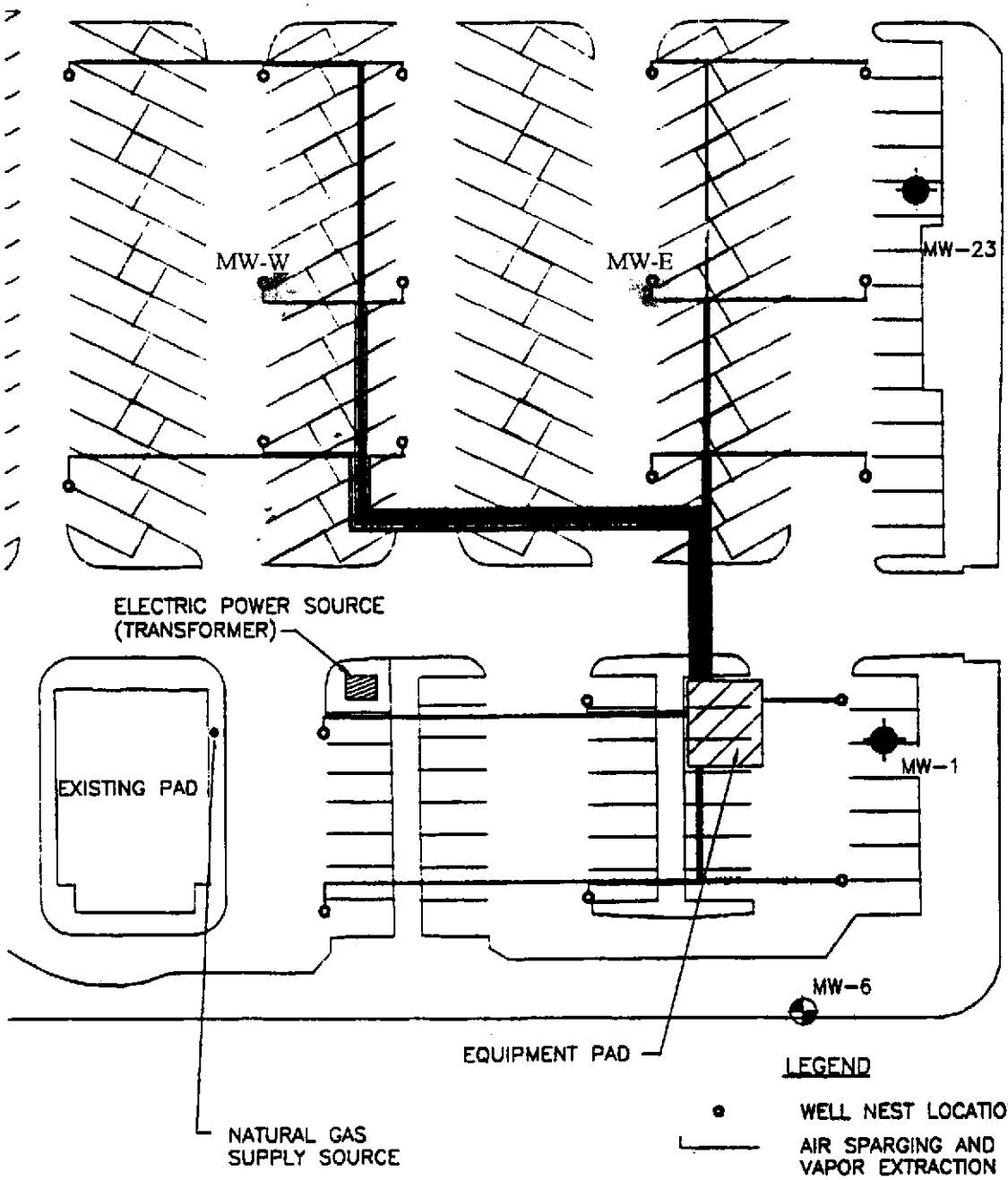
Prior to purging and sampling ground water monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable, polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer 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 are monitored. The well is sufficiently purged when: the four casing volumes have been removed; the temperature, pH, and conductivity 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 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 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 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 labelled 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 will 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 persist throughout bailing, a final free product thickness measurement will be taken and a ground-water sample will not be collected.

Samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilizing 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. A Chain-of-Custody form is completed to ensure sample integrity. Ground-water samples are transported to a state-certified laboratory and analyzed within the EPA-specified holding times for the requested analyses.



LEGEND

- WELL NEST LOCATION
- AIR SPARGING AND VAPOR EXTRACTION LINES
- APPROXIMATE TRENCH BOUNDARY

NOTE:
1. TYPICAL NUMBER OF LINES FOR AIR SPARGING AND VAPOR EXTRACTION SYSTEM
2. TRENCHS ARE REQUIRED FOR ELECTRIC POWER AND NATURAL GAS SUPPLY SOURCE. THE TRENCH USED FOR THE VAPOR EXTRACTION/ AIR SPARGING SOURCE CAN BE USED FOR ONE OF THE SOURCES BUT A SEPERATE TRENCH WILL BE NEEDED FOR THE OTHER SOURCE.

0 50'

SCALE: 1" = 40'

CLIENT: ULTRAMAR		
DATE: 9/12/95	REV. NO.: 2	
AUTHOR: ..	DRAWN BY:	
CK'D BY:	FILE: ULTRA1A	

FOR SAFEWAY SITE
BEACON STATION No. 604

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 12-16-98

Site: Beacon 604 Project No.:

1619 First St Well Designation: MW-W

Livermore

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in 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): -1-
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12⅛" CNI X 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposable bailer:_____ Teflon bailer:_____ tubing X

Well Diameter: (1") 2"____ 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 815
Depth of well: 64.83
Depth to water: 36.29

Recharge Measurement
Time:_____
Depth to water: 38.54

Calculated purge: 4.7 gal
Actual purge: 4.7 "

Start purge: 815 Sampling time: 832

Time	Temp.	E.C.	pH	Turbidity	Volume
816	62.4	924	714	—	1
817	61.1	914	710	~	2
819	60.3	908	702	~	3
820	61.1	936	697	~	4

Sample appearance: clear Lock: none

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks:

Signature:

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 12-16-98

Site: Beacon 604 Project No.:

1619 First St Well Designation: MW-E

Livermore Ca

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in 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):
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI X 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposable bailer:_____ Teflon bailer:_____ x-tubing

Well Diameter: (1") 2"____ 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 750
Depth of well: 64.75
Depth to water: 36.72

Recharge Measurement
Time:
Depth to water:

Calculated purge: 4.6 x1
Actual purge: 4.6

Start purge: 755 Sampling time: 810

Time	Temp.	E.C.	pH	Turbidity	Volume
756	63.0	1106	731	—	1
757	62.1	1032	726	—	2
758	62.4	1014	722	—	3
800	61.9	982	721	—	4

Sample appearance: clear Lock: none

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks:

Signature:

KIFF ANALYTICAL LLC

Report Number : 12962
Date : 01/05/99

Dale van Dam
El Dorado Environmental
2221 Goldorado Trail
El Dorado, CA 95623

Subject : 2 Water Samples
Project Name : Beacon 604
Project Number : 94-604-01

Dear Mr. van Dam,

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,

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 12962
Date : 01/05/99

Project Name : **Beacon 604**
Project Number : **94-604-01**

Sample : **MW-E** Matrix : Water
Sample Date :12/16/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1600**	5.0	ug/L	EPA 8020	12/30/98
Toluene	**180**	5.0	ug/L	EPA 8020	12/30/98
Ethylbenzene	**180**	5.0	ug/L	EPA 8020	12/30/98
Total Xylenes	**310**	5.0	ug/L	EPA 8020	12/30/98
Methyl-t-butyl ether	**< 50**	50	ug/L	EPA 8020	12/30/98
TPH as Gasoline	**5700**	600	ug/L	M EPA 8015	12/30/98
aaa-Trifluorotoluene (8020 Surrogate)	106		% Recovery	EPA 8020	12/30/98
aaa-Trifluorotoluene (Gasoline Surrogate)	93.4		% Recovery	M EPA 8015	12/30/98

Sample : **MW-W** Matrix : Water
Sample Date :12/16/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**7600**	25	ug/L	EPA 8020	12/31/98
Toluene	**760**	5.0	ug/L	EPA 8020	12/30/98
Ethylbenzene	**1400**	5.0	ug/L	EPA 8020	12/30/98
Total Xylenes	**5000**	5.0	ug/L	EPA 8020	12/30/98
Methyl-t-butyl ether	**< 50**	50	ug/L	EPA 8020	12/30/98
TPH as Gasoline	**23000**	500	ug/L	M EPA 8015	12/30/98
aaa-Trifluorotoluene (8020 Surrogate)	110		% Recovery	EPA 8020	12/30/98
aaa-Trifluorotoluene (Gasoline Surrogate)	90.4		% Recovery	M EPA 8015	12/30/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Ultramar Inc.

CHAIN OF CUSTODY REPORT

BEACON

12962

Beacon Station No.	Sampler (Print Name)			ANALYSES				Date	Form No.
604	Hal Hansen							12-16-98	1 of 1
Project No.	Sampler (Signature)							Standard TAT	
94-604-01	Hal Hansen								
Project Location	Affiliation								
Livermore	Dames-Env								
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS	
MW-E	12-16-98	810	-01	XX			4		
MW-W	"	832	-02	XX			4		

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Hal Hansen Dames-Env	12/17	1151			
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			AV-Mike Cruz	12/17	1151

Report To: Dale van Dam

Bill to: ULTRAMAR INC.
525 West Third Street
Hanford, CA 93230
Attention: Terry Fox

WHITE: Return to Client with Report YELLOW: Laboratory Copy PINK: Originator Copy

32-1063 1/99