Ultramar

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

Telecopy: 209-584-6113 Credit & Wholesale 209-583-3330 Administrative 209-583-3302 Information Services 209-583-3358 Accounting

October 12, 1993

Mr. Donald D. Dalke San Francisco Bay Region Regional Water Quality Control Board 2101 Webster Street, Suite 500 Oakland, CA 94612

SUBJECT:

BEACON STATION NO. 720, 1088 MARINA BLVD., SAN LEANDRO,

CALIFORNIA

Dear Mr. Dalke:

Enclosed is a copy of the report on quarterly ground-water monitoring for the second quarter 1993 for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report which describes the work completed in this quarter and the anticipated to be completed in the next quarter.

Please call if you have any questions.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox

Senior Project Manager

Tenence A. Fox

Marketing Environmental Department

Enclosure:

Ground-Water Sampling Report

Quarterly Status Report

cc w/encl:

Mr. Rafat Shahid, Alameda County Health Care Services



Ultramar

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ENVIRONMENTAL PROJECT OUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: October 12, 1993

QUARTER ENDING: June 30, 1993

SERVICE STATION NO.: 720

ADDRESS: 1088 Marina Blvd., San Leandro, CA

COUNTY: Alameda

ULTRAMAR CONTACT: Terrence A. Fox

TEL. NO: 209-583-5545

BACKGROUND:

In January 1987, three underground gasoline storage tanks and one waste oil tank were excavated and removed from two tank Samples collected from beneath the former tanks cavities_ indicated that hydrocarbons were present in the soil. In March 1987, five monitoring wells (MW-1 through MW-5) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells with the highest concentrations being detected in the area of MW-4. In July 1987, four soil were drilled in the vicinity of MW-4 to further characterize the soil contamination in that area. TPH concentrations above 100 ppm were detected in each boring. The site has been on a monitoring program since June 1987.

In July 1990, the site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued.

August 1991, perform shallow ground water study as In screening tool to locate wells.

In October 1991, installed three additional wells to further define the extent of the dissolved hydrocarbon plume.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on May 25, 1993.



RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that the benzene concentration decreased in MW-1 from 750 ppb to 200 ppb, in MW-3 from 220 ppb to 120 ppb, and in MW-8 from 1,500 ppb to 580 ppb. The benzene concentration increased in MW-2 from 1,900 ppb to 3,300 ppb, in MW-4 from 8,200 ppb to 16,000 ppb, and in MW-5 from 3,500 ppb to 7,900 ppb. MW-6 and MW-7, located in the public right-of-way, were not sampled this quarter because the City asphalted over the wells and they were not accessible.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ACTIVITY

ESTIMATED COMPLETION DATE

Continue quarterly monitoring program

September 23, 1993

ENVIRONMENTAL, INC

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

Subject:

Second Quarter 1993 Groundwater Monitoring Report

Beacon Station #720

1088 Marina Boulevard, San Leandro, California

Dear Mr. Fox:

Aegis Environmental, Inc. (Aegis), is pleased to provide Ultramar Inc., this report documenting the results of quarterly groundwater monitoring, conducted on May 25, 1993 at the subject site if igure 1). The monitoring included depth-to-water measurements, subjective analysis of free product, and collection of groundwater samples.

GROUNDWATER ELEVATIONS

Prior to purging the wells, Aegis personnel collected depth-to-water measurements. Groundwater level data from March 1992 to date are summarized in Table 1. Previous groundwater level data are included in Attachment 3. All depth-to-groundwater measurements were conducted according to the Aegis standard operating procedures (SOP) included in Attachment 1. On the basis of the current measurements, groundwater (Figure 2) and the of the current measurements, is substantially different then the prior event. The reason for this anomaly is unknown at this time. Groundwater levels have decreased an average of 0.84-feet compared to the last monitoring event.

GROUNDWATER SAMPLING AND ANALYSES

Aegis personnel collected groundwater samples from six of the eight wells. **Melis **

Awai and MW-7 have been paved over and were inaccessible. The samples were collected and handled according to the Aegis SOP included in Attachment 1. All samples were analyzed for concentrations of:

- Total petroleum hydrocarbons, as gasoline, by EPA Method 8015;
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 602;
- pH by EPA Method 150.1

Analytical results from March 1992 to date are summarized in Table 2. Previous analytical results are included in Attachment 4. Figure 3 is a distribution map of benzene in groundwater based on the current data. The laboratory report and chain-of-custody form for the current event are included as Attachment 2. Benzene concentrations have decreased in wells MW-1, MW-3, and MW-8 and have increased in wells MW-2, MW-4, and MW-5 compared to last monitoring event. Results of pH testing, included in the laboratory report in Attachment 2, indicate pH ranges from 6.6 - 6.9.

Aegis recommends a copy of this quarterly monitoring report be forwarded to the following agency:

Mr. Rafat Shahid Division of Hazardous Materials Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, California 94621 This report has been prepared for the sole use of Ultramar Inc. Any reliance on this report by third parties shall be at such parties' own risk. The work described herein was performed under the review and supervision of the professional geologist, registered with the State of California, whose signature appears below.

No. 5600 Exp. 6/30/95

If you have any questions or comments, please call us at (916) 782-2110.

Sincerely,

AEGIS ENVIRONMENTAL, INC.

Owen M. Kittredge

Project Geologist

Paul Graff

Senior Geologist

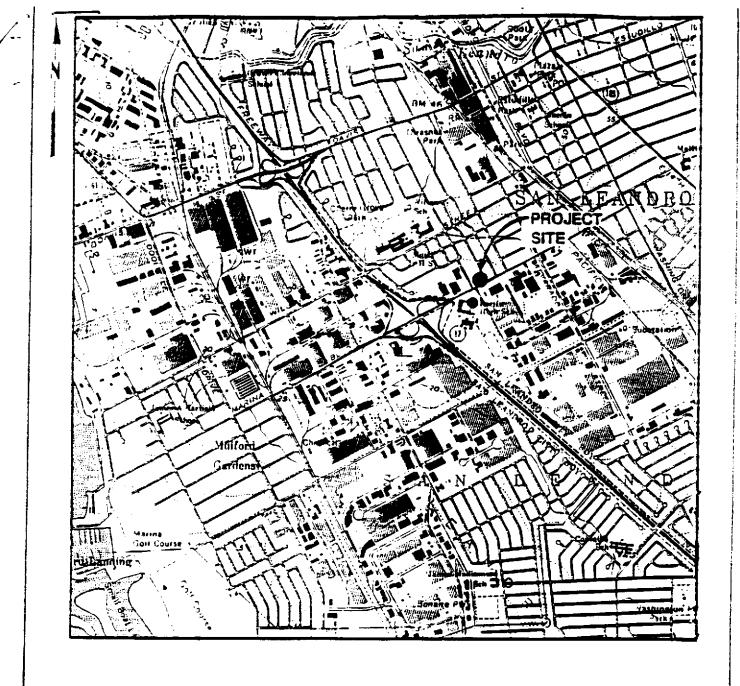
CRG No. 5600

Date

OMK/PKG/sdh

Attachments

FIGURES:	FIGURE 1 SITE LOCATION MAP
	FIGURE 2 POTENTIOMETRIC SURFACE MAP (MAY 25, 1993)
	FIGURE 3 DISTRIBUTION MAP OF BENZENE IN GROUNDWATER (MAY 25, 1993)
T 45: 50	
TABLES:	TABLE 1 WATER LEVEL DATA
	TABLE 2 ANALYTICAL RESULTS: GROUNDWATER
ATTACHMENTS:	ATTACHMENT 1 STANDARD OPERATING PROCEDURES
	ATTACHMENT 2 LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM
	ATTACHMENT 3 HISTORICAL WATER LEVEL DATA
	ATTACHMENT 4 HISTORICAL ANALYTICAL DATA
	ATTACHMENT 5 FIELD DATA SHEETS

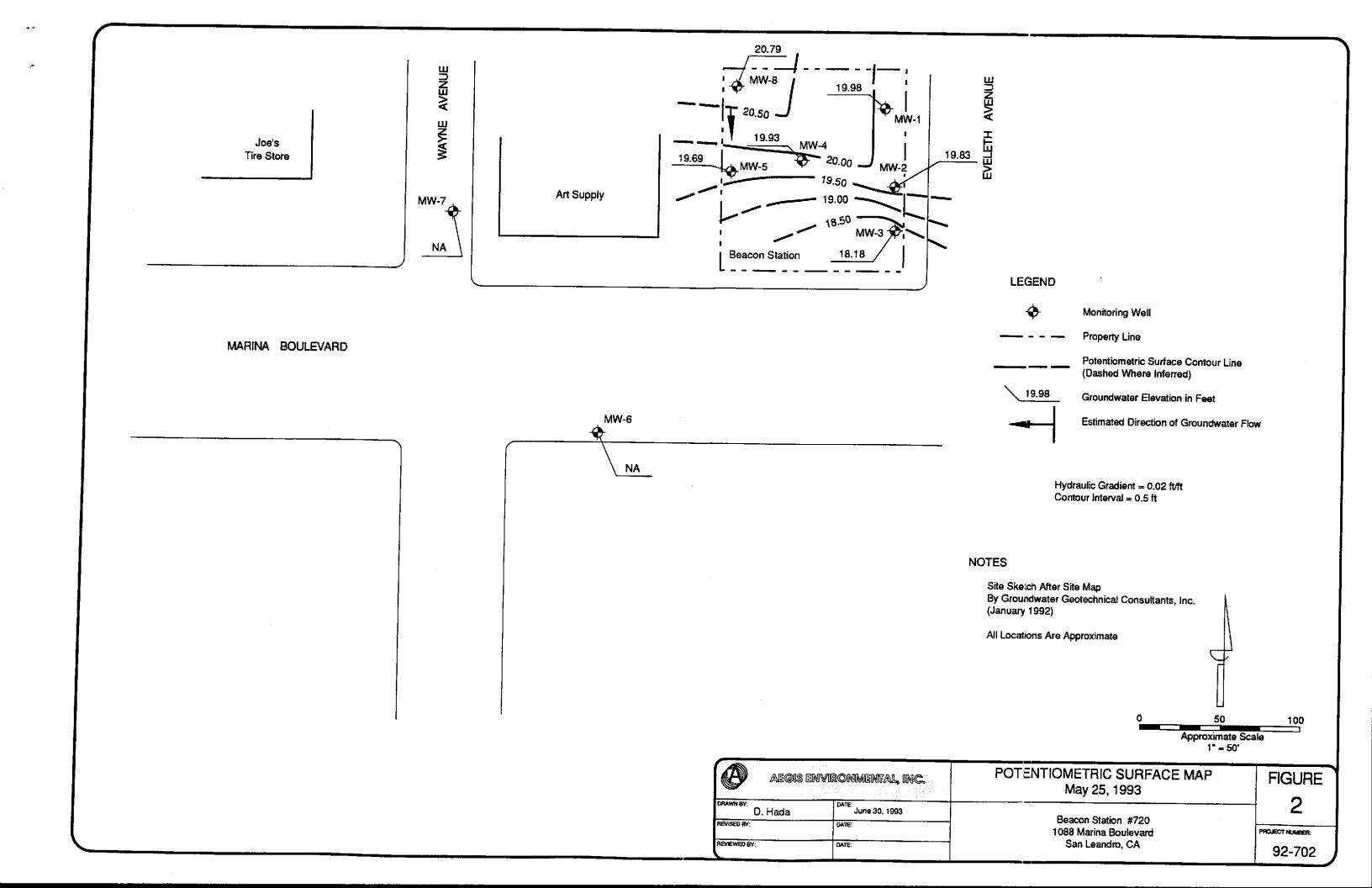


2000 4000 FT

NOTES

1. BASE MAP TAKEN FROM USGS
BAN LEANDRO, CALIFORMA 7.5
MINUTE TOPOGRAPHIC
GUADRANGLE, (1980)

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/00 MO.	€189-02		
0 THE TO	£189-02/1	DOO HOUT CITE I OCATION MAD	
00000	ງ ຮຸບາບ	PROJECT SITE LOCATION MAP	1 1
0=0	J PHILLIPS	1088 MARINA BLVD., SAN LEANDRO, CALIFORNIA	
	JHICKS	ULTRAMAR, INC.	#0.



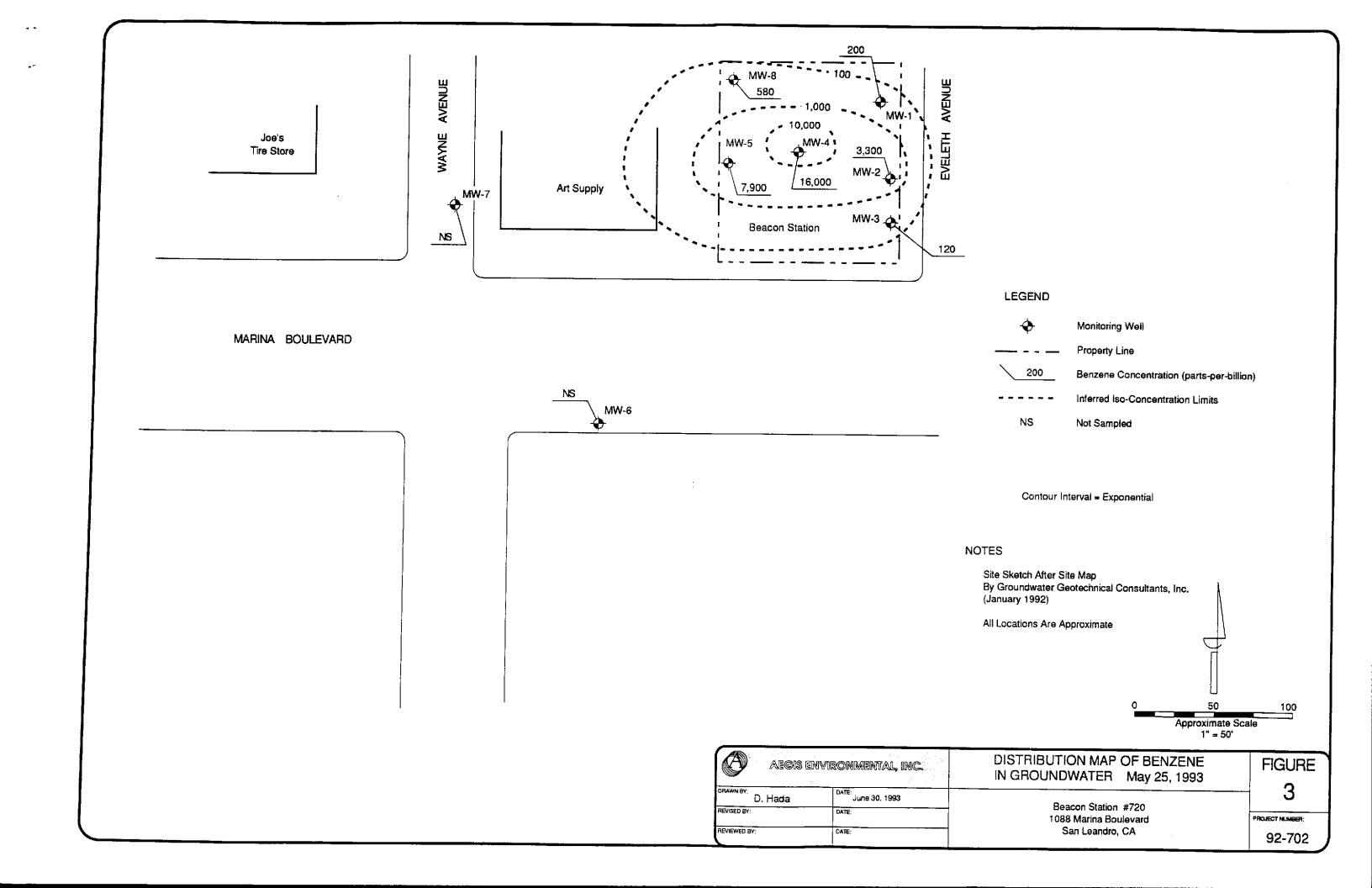


TABLE 1

WATER LEVEL DATA

BEACON STATION #720 1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA (Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Well Depth	Comments
MW-1	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	33.10	13.58 14.80 16.12 16.34 12.61 13.12	19.52 18.30 16.98 16.76 20.49 19.98	 27.76 27.72 27.70	
MW-2	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	32.80			24.56 25.37 25.31	
MW-3	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	32.30	12.96 14.00 15.36 15.57 11.96	19.34 18.30 16.94 16.73 20.34 18.18	 24.45 24.54 24.50	
MW-4	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	32.90	13.60 15.72 16.04 16.21 12.70 12.97	19.30 17.18 16.86 16.69 20.20 19.93	 26.92 27.00 26.88	
MW-5	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	32.70	13.48 14.58 15.82 16.00 12.40 13.01	19.22 18.12 16.88 16.70 20.30 19.69	 27.56 27.61 27.61	



Measurement and reference elevation taken from notch/mark on top north side of well casing.

Elevation referenced to mean sea level.

Well Depth = Measurement from top of casing to bottom of well.

= Not measured.* = Well paved over.

= Below indicated detection limit.

ND = Reported as "nondetect" by previous consultant.

NS = Not sampled.

TABLE 1

WATER LEVEL DATA

BEACON STATION #720 1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA (Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Well Depth	Comments
MW-6	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	30.40	12.62 12.70 13.40 13.59 12.43	17.78 17.70 17.00 16.81 17.97	 15.10 15.01	*
MW-7	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	31.20	12.34 15.54 14.64 14.80 11.36	18.86 15.66 16.56 16.40 19.84	 25.10 25.02	*
MW-8	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	33.80	14.66 15.74 17.00 17.01 13.83 13.01	19.14 18.06 16.80 16.79 19.97 20.79	 29.75 29.88 29.86	

NOTES: 1

= Measurement and reference elevation taken from notch/mark on top north side of well casing.

Elevation referenced to mean sea level.

Well Depth = Measurement from top of casing to bottom of well.

--- = Not measured,
* = Well paved over,

= Below indicated detection limit.

ND = Reported as "nondetect" by previous consultant.

NS = Not sampled.

TABLE 2 ANALYTICAL RESULTS: GROUNDWATER

BEACON STATION #720 1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA (All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	Benzene	Toluene	Ethyl- benzene	Total Xylenes	
MW-1	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	27,000 55,000 6,400 1,300 53,000 9,400	630 840 150 90 750 200	840 1,000 150 95 90 11 750 560		1,900 3,600 470 87 5,700 1,500	
MW-2	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	52,000 130,000 24,000 32,000 64,000 34,000	2,300 3,500 890 1,900 1,900 3,300	1,700 2,900 350 1,700 2,200 1,500	940 1,900 500 870 860 1,300	3,300 7,900 1,700 3,400 4,100 5,900	
MW-3	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	21,000 13,000 4,500 4,700 23,000 9,900	560 150 53 73 220 120	50 20 2.6 6.2 40 26	630 22 84 140 430 370	980 300 96 120 740 520	
MW-4	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	76,000 95,000 58,000 33,000 130,000 63,000	8,000 6,900 7,100 5,500 8,200	4,400 2,200 1,500 840 6,700 6,600	730 70 650 400 940 1,700	2,500 880 2,700 1,400 4,400 8,100	
MW-5	03/30/92 07/01/92 09/30/92 11/19/92 02/03/93 05/25/93	29,000 52,000 32,000 7,800 74,000 57,000	2,600 2,400 1,800 1,000 3,500 7,900	980 1,000 780 280 3,000 4,700	390 5,200 370 120 780 1,900	1,100 2,000 1,700 370 3,200 7,800	

NOTES:

ND NS

TABLE 2

ANALYTICAL RESULTS: GROUNDWATER

BEACON STATION #720 1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA (All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	Benzene	Toluene	Ethyl- benzene	Total Xylenes	
MW-6	03/30/92	73	2.1	1.1	ND	0.6	
	07/01/92	ND	ND	ND	ND	ND	
	09/30/92	ND	0.73	ND	ND	0.58	
	11/19/92	96	1.5	<0.5	V 0.5	0.9	
	02/03/93	73	0.6	<0.5	V 0.5	<0.5	
	05/25/93	NS	NS	NS	NS	NS	
MW-7	03/30/92	ND	ND	ND	ND	ND	
	07/01/92	ND	ND	ND	ND	ND	
	09/30/92	ND	ND	ND	ND	ND	
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5	
	02/03/93	<50	<0.5	<0.5	<0.5	<0.5	
	05/25/93	NS	NS	NS	NS	NS	
MW-8	03/30/92	3,000	1,700	880	970	1,900	
	07/01/92	72,000	1,800	550	520	2,200	
	09/30/92	12,000	680	140	140	560	
	11/19/92	9,600	530	310	130	560	
	02/03/93	44,000	1,500	1,300	490	2,300	
	05/25/93	7,400	580	160	170	480	

ATTACHMENT 1 STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC. STANDARD OPERATING PROCEDURES

RE: SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on-site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES

RE: LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

SOP-5

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

- 1. Participation in state and federal laboratory accreditation/certification programs;
- 2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
- 3. Standard operating procedures describing routine and periodic instrument maintenance;
- 4. "Out-of-Control"/Corrective Action documentation procedures; and,
- 5. Multi-level review of raw data and client reports.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURE
RE: GROUNDWATER PURGING AND SAMPLING
SOP-7

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten well-bore volumes of groundwater have been recovered, or the well is bailed dry. When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

The groundwater sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is then inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. Label information should include a unique sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample is put on hold at the laboratory. When required, a trip blank is prepared at the laboratory and placed in the transport cooler. It is labeled similar to the well samples, remains in the cooler during transport, and is analyzed by the laboratory along with the groundwater samples. In addition, a field blank may be prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been either steam cleaned or properly washed, prior to use in the next well, and is analyzed along with the other samples. The field blank analysis demonstrates the effectiveness of the in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all well development and water sampling equipment not dedicated to a well is either steam cleaned or properly washed between use. As a second precautionary measure, wells are sampled in order of least to highest concentrations as established by available previous analytical data.

In the event the water samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field, or in a refrigerator at Aegis' office.

AEGIS ENVIRONMENTAL, INC. STANDARD OPERATING PROCEDURE

RE: MEASURING LIQUID LEVELS USING WATER LEVEL OR INTERFACE PROBE SOP-12

Field equipment used for liquid-level gauging typically includes the measuring probe (water-level or interface), light filter(s), and product bailer(s). The field kit also includes cleaning supplies (buckets, TSP, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurement, the probe tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "depth to water" (DTW).

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case. After grounding the probe, the top of the well casing is fitted with a light filter to insure that sunlight does not interfere with the operation of the probe's optical mechanism.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water indicator and the DTW measurement is made accordingly. The steady tone indicates floating hydrocarbons. In this case, the probe is slowly raised until the steady tone ceases. This is the depth-to-product (DTP) indicator and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When floating product is indicated by the probe's response, a product bailer is lowered partially through the product-water interface to confirm the product on the water surface, and as further indication of product thickness, particularly in cases where the product layer is quite thin. This measurement is recorded on the data sheet as "product thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with TSP solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

ATTACHMENT 2

LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS



Analytical Laboratory Report

EPA Methods 8015 Modified / 8020

RECEIVED

JUN 0 3 1993

Ans'd. CF/SRR

Date Sampled: Date Received: 5/25/93

5/25/93

Date Analyzed: Date Reported:

5/26/93

Report #:

6/1/93 305090.rpt

Proj Mngr: Sheila Richgels

Client:

Aegis Environmental

Project:

Ultramar Station # 720, San Leandro, Project # 92-702

Matrix:

Water

COC#:

NA

Lab ID No.	Field ID No.	Dilution Factor	Benzene	Toluene	Ethyl benzene	Xylenes - Total	TPHg	TPHd	
S5950593	MW-1	20	200	86	470	1500	9400	NR	
S5960593	MW-2	50	3300	1500	1300	5900	34000	NR	
S5970593	MW-3	10	120	26	370	520	9900	NR	
S5980593	MW-4	50	16000	6600	1700	8100	63000	NR	
S5990593	MW-5	50	7900	4700	1900	7800	57000	NR	
S6000593	MW-8	10	580	160	170	480	7400	NR	
							-		

in the second se					
Detection Limits (DL) 0.5 ug/L	0.5 ng/L	0.5 110/1.	0.5 110/1	50 ug/I	50 na/I
() () () () ()	v.+ -8/-	0.5 ug. 2	0.5 45.2	130 4512	120 mg/L

NOTES:

NR - Analysis not requested.

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

TPHg - Total petroleum hydrocarbons as gasoline.

TPHd - Total petroleum hydrocarbons as diesel #2.

mg/kg - Milligrams per kilogram (PPM).

ug/I- Microgram per Litre (PPB).

DL - Detection limit.

DL Factor - Detection Limit Factor

SDL - Specific Detection Limit - Multiply DL by the DL Factor to obtain the detection limit for a specific Field ID No.

PROCEDURES:

BTEX - This analysis was performed in using with EPA Method 8020, and EPA Method 5030.

TPHg - This analysis was performed in using with EPA Method 8015 Mod., and EPA Method 5030.

TPHd - This analysis was performed in using with EPA Method 8015 Mod. and CA State Certified Method.

CERTIFICATION:

California Department of Health Services ELAP Certificate # 1774

Onsite Environmental Laboratories, 856 South Lime Street, Anaheim, CA 92805 (714) 533-3322

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COAST - TO Analytical **ERVICES**

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NorCal Division (San Jose Laboratory) 2059 Junction Ave.

San Jose, CA 95131 (408) 955-9077

Lab Number: JJ0671

Project : 92-702, Station 720

CLIENT: Peter C. Balas

Onsite Environmental Laboratories

5500 Boscel Common Fremont, CA 94538

REPORT OF ANALYTICAL RESULTS

Page 1 of 2

SAMPLE ID	SAMPLE DESCRIPTION	MATRIX		SAMPLED	BY	SAMPLED DATE	RECEIVED
JJ0671-1	MW-1	Monito Water	ring	Craig Jo	ones	05/25/93	05/25/93
JJ0671-2	MW-2	Monito Water	ring	Craig Jones		05/25/93	05/25/93
JJ0671 - 3	MW-3	Monito Water	ring	Craig Jo	ones	05/25/93	05/25/93
JJ0671-4	MW-4	Monito Water	ring	Craig Jo	ones	05/25/93	05/25/93
CONSTITUENT	7	UNITS	*PQL	JJ0671-1	JJ0671-2	JJ0671-3	JJ0671-4
-	ed by:	Units	0.1	6.8 EPA 150.1 CL	6.7 EPA 150.1 CL		6.7 EPA 150.1 CL
Analyz	ed on:			05/25/93	05/25/93	05/25/93	05/25/93

San Jose Lab Certifications: CAELAP #1204

05/26/93

NG/sab/cml PH93052501

^{*}RESULTS of 'ND' not detected at or above the listed PQL times Dilution Factor.



Air, Water & Hazardous Waste Sampling, Analysis & Consultation Certifièd Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Benicia, CA • Camarillo, CA • San Jose, CA Anaheim, CA • Tempe, AZ • Valparaiso, IN • Westbrook, ME • Indianapolis, IN

NorCal Division (San Jose Laboratory) 2059 Junction Ave.

San Jose, CA 95131 (408) 955-9077

Lab Number : JJ0671

Project

: 92-702, Station 720

CLIENT: Peter C. Balas

Onsite Environmental Laboratories

5500 Boscel Common Fremont, CA 94538

REPORT OF ANALYTICAL RESULTS

Page 2 of 2

SAMPLE ID	SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	;	SAMPLED DATE	RECEIVED
JJ0671-5	₩ - 8	Monitoring Water	Craig Jones		05/25/93	05/25/93
JJ0671-6	MW− 5	Monitoring Water	Craig Jones		05/25/93	05/25/93
CONSTITUENT	r		UNITS	*PQL	JJ0671-5	JJ0671 - 6
-	i: zed by: zed on:		Units	0.1	6.9 EPA 150.1 CL 05/25/93	6.6 EPA 150.1 CL 05/25/93

San Jose Lab Certifications: CAELAP #1204

*RESULTS of 'ND' not detected at or above the listed PQL times Dilution Factor.

05/26/93

NG/sab/cml PH93052501 Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES, INC.

Nick Gaone

Inorganics Manager

BEACON



ONSITE Uitramar inc. **CHAIN OF CUSTODY REPORT**

Beacon Station No.	Sampler (Print	Name)		<u> </u>		Mari	·····	$\overline{}$	Date	Form No	7
720	Capic	ユニ	lones	1	<u> </u>	NAL	yses T	+		<u>of</u>	<u></u>
Project No. 92-70Z	Sampler (Signa	atu re)	_	1					PLEASE	USE	
		phe		ا					TRI-REG	SIONA	L
Project Location 1088 MARINA BLVD.	Affiliation	-		2	1			, ide	1		
SAN LEANDRO, CA.	ALGIS EN	VV IRD	IMENIAL	× ,					DETECTION	M LI	m175
Sample No./Identification	Date	Tir	e Lab No.	BTEX	臣	1 2			PE REMAI	aks	
mw - 1	5/25-93			X							
mw - 2	5-25-97										
mw-3	2-32-0										<u> </u>
mw-4	5-25-9										
mw-5	5-25-95										
mw-6	5-25-93								No Sc	mok	
mw-7	5-25-95								No SA	1	
mw = 8	5-25-9)						y				
Relinquished by: (Signature/Affiliation)	Date 5-25-41	Time	Received by: (Signatur	Aff	liati	OH	1	,.	(Date	Time
(one)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Mille	15	4		01	30	to En las	3/25/9	13:2
Relinquished by: (Signature/Affillation)	Date	Time	Received by: (Signatur	e/Alli	liati	oń)				Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signatur	e/Affi	liati	on)	· · · · · · · · · · · · · · · · · · ·			Date	Time
1 15	(916) 782-ZH FAX 786-78	[Bill to: ULTRAMAF 525 West TI Hanford, CA Attention:	hird 5 \ 932	Stre		Ē RI	ey	Fox_		<u> </u>
WHITE: Return to Client with Report	YELLOW: Labo		ny PINK-Origin		^						003 1490

ATTACHMENT 3 HISTORICAL WATER LEVEL DATA

GROUNDWATER ELEVATIONS Page 1 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)					
Groundwater Monitoring Well MW-1:	Elevation	Elevation of Top of Casing = 29.89 fee					
June 23, 1987	14.79	15.10					
July 06, 1987	14.93	14.96					
August 06, 1987	14.22	15.67					
November 04, 1987	15.74	14.15					
February 02, 1988	13.99	15.90					
May 02, 1988	14.99	14.90					
November 21, 1988	13.03	16.86					
February 14, 1989	15.86	14.03					
May 02, 1989	14.77	15.12					
August 10, 1989	16.35	13.54					
November 08, 1989	16.46	13.43					
February 20, 1990	15.58	14.31					
May 18, 1990	16.40	13.49					
September 15, 1990	16.83	13.06					
November 26, 1990	17.16	12.73					
February 07, 1991	16.43	13.46					
May 14, 1991	14.93	14.96					
August 16, 1991	16.35	13.54					
Groundwater Monitoring Well MW-1:	New Elevation or	f Top of Casing = 33.10 feet					
December 24, 1991	17.20	15.90					
March 30, 1992	13.58	19.52					
Groundwater Monitoring Well MW-2:	Elevation of	Top of Casing = 29.57 feet					
June 23, 1987	14.51	15.06					

TABLE 1
GROUNDWATER ELEVATIONS
Page 2 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
July 06, 1987	14.63	14.94
August 06, 1987	14.95	14.62
November 04, 1987	15.45	14.12
February 02, 1988	13.74	15.83
May 02, 1988	14.63	14.94
November 21, 1988	12.99	16.58
February 14, 1989	15.66	13.91
May 02, 1989	14.56	15.01
August 10, 1989	16.22	13.35
November 08, 1989	16.19	13.38
February 20, 1990	15.34	14.23
May 18, 1990	16.20	13.37
September 15, 1990	16.42	13.05
November 26, 1990	16.83	12.74
February 07, 1991	16.13	13.44
May 14, 1991	14.62	14.95
August 16, 1991	16.00	13,57
Groundwater Monitoring Well MW-2:	New Elevation of	Top of Casing = 32.80 feet
December 24, 1991	16.90	15.90
March 30, 1992	13.32	19.48
Groundwater Monitoring Well MW-3:	Elevation of	Top of Casing = 29.13 feet
June 23, 1987	14.13	15.00
July 06, 1987	14.24	14.89
August 06, 1987	14.52	14.61
November 04, 19887	15.09	14.04
ebruary 02, 1988	13.37	15.76

GROUNDWATER ELEVATIONS Page 3 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
May 02. 1988	14.22	14.91
November 21, 1988	13.01	16.12
February 14, 1989.	15,22	13.91
May 02, 1989	14.16	14.97
August 10, 1989	15.61	13.52
November 08, 1989	15.75	13.38
February 20, 1990	14.95	14.18
May 18, 1990	15.79	13.34
September 15, 1990	16.07	13.06
November 26, 1990	16.36	12.77
February 07, 1991	15.74	13,39
May 14, 1991	14.19	14,94
August 16, 1991	15.55	13.58
Groundwater Monitoring Well MW-3:	New Elevation of	Top of Casing = 32.30 feet
December 24, 1991	16.40	15.90
March 30, 1992	12.96	19.34
Groundwater Monitoring Well MW-4:	Elevation of	Top of Casing = 29.72 feet
June 23, 1987	14.77	14.95
July 06, 1987	14.91	14.81
August 06, 1987	15.19	14.53
November 04, 1987	15.72	14.00
February 02, 1088	14.03	15.69
May 02, 1988	14.89	14.83
lovember 21, 1988	12.88	16.84
ebruary 14, 1989	15.83	13.89
May 02, 1989	14.75	14.97

GROUNDWATER ELEVATIONS Page 4 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
August 10, 1989	16.30	13.42
November 08, 1989	16.29	13.43
February 20, 1990-	15.62	14.10
May 18, 1990	16.34	13.38
September 15, 1990	16.79	12.93
November 26, 1990	17.08	12.64
February 07, 1991	16.37	13.35
May 14, 1991	14.87	14.85
August 16, 1991	16.25	13.47
Groundwater Monitoring Well MW-4:	New Elevation o	f Top of Casing = 32.90 feet
December 24, 1991	17.10	15.80
March 30, 1992	13.60	19.30
Groundwater Monitoring Well MW-5:	Elevation of	f Top of Casing = 29.55 feet
June 23, 1987	14.63	14.92
July 06. 1987	14.79	14.76
August 06, 1987	15.07	14.48
November 04, 1987	15.61	13.94
February 02, 1988	13.84	15.71
May 02, 1988	14.77	14.78
November 21, 1988	12.84	16.71
February 14, 1989	15.72	13.83
May 02, 1989	14.68	14.87
August 10, 1989	16.03	13.52
November 08, 1989	16.33	13.22
February 20, 1990	15.44	14.11

GROUNDWATER ELEVATIONS Page 5 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
May 18, 1990	16.22	13.33
September 15, 1990	16.65	12.90
November 26, 1990	16.95	12.60
February 07, 19 91	16.20	13.35
May 14, 1991	14.72	14.38
August 16, 1991	16.10	13,45
Groundwater Monitoring Well MW-5:	New Elevation of	Top of Casing = 32.70 feet
December 24, 1991	16.92	15.78
March 30, 1992	13.48	19.22
Groundwater Monitoring Well MW-6:	Elevation of	Top of Casing = 30.40 feet
December 24, 1991	14.12	16.28
March 30, 1992	12.62	17.78
Groundwater Monitoring Well MW-7:	Elevation of	Top of Casing = 31.20 feet
December 24, 1991	15.70	15.50
Marcn 30, 1992	12.34	18.86
Groundwater Monitoring Well MW-8:	Elevation of	Top of Casing = 33.80 feet
December 24, 1991	18.00	15.80
· · · · · · · · · · · · · · · · · · ·	14.66	19,14

5) Environmental Geotechnical Consultants, Inc., made measurements beginning in May 1991

ATTACHMENT 4 HISTORICAL ANALYTICAL DATA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Page 1 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (μg/L)	TPH-G (µg/L)	ľ
MW-1	Apr. 16, 1987	2.313	3,770	664.1	3,331	17,276	
	June 23, 1987	1,887	2,141	46 6 .7	1,652	26,027	
	July 06, 1987	778.2	943.7	133.2	422.1	3,938	
	Aug. 06, 1987	1,270	1.576	288.7	873.7	6,079	
	Nov. 04, 1987	1,700	4.000	720	2,200	15,000	
	Feb. 02, 1988	1,500	1,700	230	740	14,000	
	May 02. 1988	3,500	700	4.900	2.700	33,000	
	Nov. 21, 1988	2.200	560	2.900	2,200	15,000	
	Feb. 14, 1989	1,700	1,700	340	1,500	12,000	Odor
	May 02, 1989	1,500	2.400	510	2,400	18,000	Odor, Slight Sheen
	Aug. 10, 1989	1,400	1.500	360	1,600	10,000	Odor
<u> </u>	Nov. 08. 1989	920	470	190	360	7,200	Odor
	Feb. 20, 1990	810	540	270	800	3,300	
	May 18, 1990	1,900	500	560	1,600	5,600	
<u> </u>	Sep. 15, 1990	320	110	150	520	5,200	Odor
**	Nov. 26, 1990	370	59	150	370	3,000	Odor
	Feb. 07. 1991	750	570	480	1,800	14.000	
	May 14, 1991	1,000	1,400	600	2.500	41,000	
	Aug. 16. 1991	310	210	150	480	4,000	Odor
	Dec. 24. 1991	530	95	310	680	11,000	Moderate Odor
	Mar. 30, 1992	630	550	540	1,900	27,000	Odor
1W-2	Apr. 16, 1987	3,131	4.239	1,067	4,608	17,920	
	June 23, 1987	2,188	2,622	1,047	4.699	49,354	
	July 06. 1987	1,575	1.729	457	1,702	8.676	
	Aug. 06. 1987	2,623	3.722	702	2.882	14,376	
	Nov. 04. 1987	2,200	4.100	900	3,500	19,000	· · · · · · · · · · · · · · · · · · ·

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Page 2 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (μg/L)	TPH-G	
MW-2	Feb. 02, 1988	6.200	6, 500 (1.000	4.000	54.000	
	May 02, 1988	6.800	-,300	7,100	5.400	53,000	
	Nov. 21, 1988						Free product
	Féb. 14, 1989	6,900	÷ 300	1,100	5,200	48.000	Film of free product
	May 02, 1989	6,100	3.800	2,100	16,000	111,000	
	Aug. 10, 1989	4.200	2.900	1.000	5.800	39.000	Odor, sheen
	Nov. 08. 1989	3,700	1.500	740	2,200	45.000	Odor, heavy sneen
	Feb. 20, 1990	5,000	3.200 İ	1.600	11,000	60,000	
	May 18, 1990	6.200	1,900	1.300	610	19.000	
	Sep. 15, 1990	1,400	920	6 60	3,000	27,000	Odor, sheen
	Nov. 26, 1990	1,100	380	700	3.800	28,000	Odor, sheen
	Feb. 07, 1991	2,100	1.900	1,300	6,200	63,000	Odor, sheen
	May 14, 1991	2,200	2.700	1,100	5,900	100,000	Moderate odor Slight sheen
	Aug. 16. 1991	1800	950	990	3900	32,000	Slight odor, sheen
	Dec. 24, 1991	1,100	550	750	2.700	30.000	Odar, sheen
	Mar. 30. 1992	2,300	1.700	940	3.300	52,000	Odor, sheen
1W-3	Apr. 16. 1987	1,371	2.438	472.3	2,617	9,967	
	June 23, 1987	646.2	822.9	320.9	1.280	16,824	
	July 06, 1987	340.3	384.2	116.5	420.2	3,395	
	Aug. 06, 1987	441.9	436.3	118.2	417.3	3,107	
	Nov. 04, 1987	320	280	74	250	2,600	
	Feb. 02, 1988	2,200	2.300	500	2,300	44,000	
	May 02, 1988	1,600	450	840	1,700	14,000	
	Nov. 21, 1988	1,200	220	560	810	8,100	
	Feb. 14, 1989	1,500	220	220	500	5.500	Odor

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Page 3 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)			
	Aug. 10, 1989	750	10	190	210	2,700	Odor
	Nov. 08, 1989	370	90	סא	58	2,400	Odor
	Feb. 20, 1990	1,200	310	77	460	3,700	
	May 18, 1990	980	סוי	330	250	2,300	
	Sep. 15, 1990	240	36	150	230	4.700	Odor
	Nov. 26, 1990	170	8.4	86	120	1,400	Odor
	Feb. 07, 1991	220	20	120	230	2,900	
	May 14, 1991	370	39	220	820	15,000	
	Aug. 16, 1991	480	50	360	680	7,200	Slight Odor
	Dec. 24, 1991	150	20	100	140	4,900	Slight Odor
	Mar. 30, 1992	560	50	630	980	21,000	Odor
MW-4	Apr. 16, 1987	5,896	3,797	893.9	4,106	19.309	
	June 23, 1987	4.030	1.342	850.0	3.254	31,429	
	July 06, 1987	2,710	1.247	308.2	1,312	8,117	
	Aug. 06, 1987	3.992	1.589	447.9	1,611	10,464	
i.	Nov. 04, 1987	9,500	17.000	2.800	11,000	55,000	
	Feb. 02, 1988	11,000	7.400	1,400	6.200	47.000	
_	May 02, 1988	9.200	1.300	6,100	6,400	58,000	
	Nov. 21, 1988	5,700	1,600	3,100	7,600	48,000	
	Feb. 14, 1989 8,700 2,500 900 3,800 May 02, 1989 4,800 5,600 1,800 8,800	8,700	2.500	900	3,800	29,000	Odor & sheen
		8,800	69,000	Odor, slight sheen			
······································	Aug. 10, 1989	15,000	6.600	1,800	12,000	67,000	Odor, slight sheen
	Nov. 08, 1989	11,000	3.200	1,100	4.400	71,000	Odor, slight sheen
	Feb. 20, 1990	8,100	4.500	930	3,500	19.000	
	May 18, 1990	45,000	12.000	5,000	27,000	100.000	
	Sep. 15, 1990	4.200	1.200	740	3,000	38,000	

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Page 4 of 5

							
Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (μg/L)	TPH-G (µg/L)	ì
MW-4	Nov. 26, 1990	2.800	6 50	810	2,600	19,000	Odor
	Feb. 07, 1991	4,600	1,100	1.60 0	4,600	41,000	Odor, sheen
	May 14, 1991	7.300	830	3.900	3.600	100,000	Slight odor, sheen
	Aug. 16, 1991	8.000	2.500	1,100	4.000	45,000	Strong odor, sneen
	Dec. 24, 1991	6,000	1.200	1,100	3.700	79,000	Odor, sheen
	Mar. 30, 1992	8,000	4 400	730	2,500	76.000	Odor, sneen
MW-5	Apr. 16 1987	2.267	921.2	3.277	4,536	17,733	
	June 23, 1987	2,239	516.8	9 53.9	1,587	19.555	
<u> </u>	July 06, 1987	1,335	313.7	799.2	923.9	5.631	
	Aug. 06, 1987	1,890	381.2	576.8	93.4	6,450	
	Nov. 04, 1987	1,300	500	270	640	4,600	
	Feb. 02. 1988	3,100	1.500	550	1,400	24.000	
	May 02, 1988	4,400	490	1,200	1,500	17,000	
	Nov. 21, 1988	5.600	590	870	2,200	19,000	
	Feb. 14, 1989	4,300	810	410	1.300	13,000	Odor
	May 02, 1989	2.900	1.500	6 90	3.200	24,000	Odor, slight sheen
	Aug. 10, 1989	6,700	2,300	860	4,700	36,000	Odor, slight sheen
	Nov. 08. 1989	5,300	860	460	600	30,000	Odor
	Feb. 20, 1990	1,700	220	120	370	3,400	
	May 18, 1990	18,000	2,000	1,500	5,600	24,000	
	Sep. 15, 1990	2,600	2,200	1,000	4,900	42.000	Odor, sheen
	Nov. 26, 1990	1,900	280	260	800	8,500	Odor, sheen

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS Page 5 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (μg/L)	TPH-G (µg/L)	Comments
	Feb. 07, 1991	1,500	1,200	610	2,700	24,000	Odor
	May 14, 1991	3,800	4 400	1,400	6,400	120,000	Odor, sheen
	Aug. 16, 1991	4.200	1,900	760	2,900	29,000	Moderate odor, sheen
	Dec. 24, 1991	3,900	1.500	8 80	3,200	63,000	Odor, sheen
	Mar. 30, 1992	2,600	980	390	1,100	29,000	Odor, sheen
MW-6	Dec. 24, 1991	חא	אם	ND	ND	79	
	Mar. 30, 1992	2.1	1.1	ND	0.6	73	:
MW-7	Dec. 24, 1991	ND	ND	ND	ND	ND	
	Mar. 30, 1992	ND	שא	ND	ND	ND	
MW-8	Dec. 24, 1991	1,700	2,40 0	1,200	6.100	81,000	Odor, sheen
	Mar. 30, 1992	1,700	980	970	1.900	3.000	Odor, sheen

Notes:

- 1) TPH-G = Total Petroleum Hydrocarbons as gasoline
- Odor refers to petroleum hydrocarbon odor
- All results are presented in parts per billion
- 4) Groundwater Technology, inc., collected samples prior to February 1989
- 5) Du Pont Environmental Services collected samples from February 1989 through February
- 6) Environmental Geotechnical Consultants, Inc. collected samples beginning in May 1991
- ND = Non Detect
- See analytical results for detection limits (Appendix B)

ATTACHMENT 5 FIELD DATA SHEETS

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

SS:
ss:

Beacon - 1088 Marina Bi, San Leandro - 720

e: 5-24

Recorded by:

CJONES

Project No.:

92-702

Well No.	Time	Well Elev. TOC	Measured Total Depth	Depth to Gr. Water	Depth to Product	Product Thickness	Comments (TOC/TOB) (product skimmer in well)
MW-1	6:52	33.10	27.70	13.12	N/A	N/A	-
MW-2	7:12	32.80	25.31	12.97	\	1	
MW-3	6:45	32.30	24.50	14,12		1	
MW-4	7:23	32.90	26.88	12.97			
MW-5	7:18	32.70	27.61	13,01			
MW-6		30.40					WELL PAVED OVER
MW-7		31.20					WELL PAVED OVER WELL PAVED OVER
MW-8	7:04	33.80	29.86	13.01	V	V	
•							
	,	:					
_							

Notes:

	er envisorme	ntal, inc.		SAMPLING	SAMPLING INFORMATION SHEET					
: Clien Sit	nt: <u>Beat</u> e: <u>1088 n</u> San le	1ARINA	720 BLVD. , CA.	Wel	Project No Il Designation					
Purging Eq	·	h disposal ba	2" Disposa 2" PVC bai 4" PVC bai	ier ler	·	Submersibl Dedicated	•			
		harged to 80	1				-			
Purge \	Well Diameter: Vol. Multiplier: Depth of well: epth to water:	2" <u>Y</u> 0.163	3"	4" 0.653 ~~ Calc	6" 1.47 ulated purge: Actual purge:		gai/ft.			
Meter Calib Date Time	-	Initial reading	Temp.	E.C.	pH	Turbidity				
Start purge	: 857 A4	Sa	mpling time:	915An	Sar	mpling Date:	5-259=			
	Time	Temp.	E.C.	рH	Turbidity	Volume	3 t			
	905 Am	658	1.45 45	5.59		<u>4</u> 3				
	900 AM	65.8	.[7]	.5 (S		3				
					-		160 160			
QC samp	oles collected		ppearance:	Clour	1	Lock:	<u>Polphin</u>			
Equipment r	2" L	(Check all that ocking Cap ocking Cap	t apply)		Lock #2357 Lock #3753	i				
Remarks:	Non	Seculos	o lin	/ acs	Lat his	en Core	×			
	lo mad			/ gas						

į.

ARG	er environme	MTAL, INC.		SAMPLING	INFORMATI	ON SHEET	: ,
	BEAC 1088 M	1ARINA	720 BLVD.	- We	Project No Il Designation	= <u>92-7</u> = <u>M</u> W	702 - 2
	SAN LE	ANDRO	<u>, CA.</u>	-			•
Purging Equ	ipment:	<u> </u>	2" Disposa 2" PVC bai 4" PVC bai	ier ,		Submersib Dedicated	•
	Sampled with Well rec	h disposal by harged to 80	recovery	<u>X</u>			
Purge V	ell Diameter: ol. Multiplier: epth of well:	0.163	0.367	4" 0.653		8" 2.61	gal/ft.
	oth to water:		·		Actual purge:		- -
Meter Calibra	ation	!	Temp.	E.C.) pH	Turbidity	7
Date		Initial reading	,	- E	•		1
Time TAA	⊶ Adji	usted reading		1 %	4		1
Start purge:	942 Am	Sa	mpling time: ししろみ	1012 Am	Sa	mpling Date:	5-25-93
	Time	Temp.	E.C.	þН	Turbidity	Volume	Ī
	950 Am	69.0	.82	5.46	1	4	
	955 Am	68,5	-81	5.34	\ <u>-</u>	4	
	1602 Am	166.7	.84	5.26		4	Ĭ.,
		ì			,		,
			•		الروا		
					1 1	44	
QC sampl	es collected :		appearance:	Cloud	Y	Lack:	Dolphin
Equipment re	•	Check all tha	t apply)	•		_	
		ocking Cap ocking Cap			Lock #2357 Lock #3753		
Remarks:	Mon	sealab	c lib	Aiser		t lock	good
		1,			-	3 .	
Signature	<u>C</u> .	ore			Review	Na	
		// 				£ %	

AS	ers environme	NTAL, INC.		SAMPLING	INFORMATIC	N SHEET	
Client Site	1088 M	ON # IARINA IANDRO	720 BLVD. , CA.		Project No: Il Designation:		
Purging Equ	Sampled with	disposal be	1 1	ier ier :		Submersible Dedicated	· ·
Purge V	Vell Diameter: ol. Multiplier: Depth of well: pth to water:	0.163 24.50	3" 0.367 645 AY	0.653	-	8" 2.61 7.0 7.0	gai/ft.
Meter Calibr Date Time	li Adju	nitial reading sted reading	Temp.	E.C.	pH	Turbidity	
Start purge:	738 Am 832 Am 837 Am 842 Au	Temp. 66.1 65.8	E.C. . 72 . 65	849 Am 60.02 849 Am 5.92 5.04 5.04	Turbidity	Volume 3 2	5-25-40
QC sampl	es collected a		ppearance:	Cloud	/		Mohin
quipment re	2" Lo	Check all that ocking Cap ocking Cap	apply)		Lock #2357 _ Lock #3753 _		
Remarks:	ſ			d/u sealable	Idea ir	· · · · · · · · · · · · · · · · · · ·	<i>.</i>
Signature	(1.	<u>Nel</u>		Review	Nan	

ARC	M ENVIRONME	ntal, inc.	-	SAMPLING	INFORMATIC	ON SHEET	
Client			720		Project No		02
Site	1088 W		BLVD.	Well	Designation:	MW.	- 4
	SAN LE	ANDRO	CA.			-	
Purging Equ	ipment:	X	2" Disposa 2" PVC bai 4" PVC bai	ler		Submersible Dedicated to	•
	Sampled wit Well rec	h disposal ha harged to 80	`				_
Purge V	'ell Diameter: ol. Multiplier:	0.163	0.367	4" 0. 653	1.47		gal/ft.
	epth of well: oth to water:		723 Am	Calc	ulated purge: Actual purge:		-
Meter Calibra	ation		Temp.	E.C.	рH	Turbidity	Ī
Date		Initial reading		14		-	Ţ,
Time 1		usted reading				<u> </u>	
Start purge:	MARYN	Saı	mpling time:	1108A	Sar	mpling Date:	S-25-27
	Time	Temp.	E.C.	рН	Turbidity	Volume	ľ
:	1051 1	74.7	1.()	5.58		3	
	10564	72.2	1.06	5.50	-36 . ,	3	
	M00 A	71.5	101	5.44		3)
					ė		•
						*	
,							
QC sampi	es collected :	Sample a	ppearance:	Cloud	4	Lock:	Dolphij
Equipment re	2" L	(Check all that ocking Cap ocking Cap	t apply)		ock #2357 .ock #3753	<u>\$</u>	
Remarks:	Work	in P	×× , R	isen flu	sh (elit	th grown	d
Signature _	C	Jones			Review	la_	

AE4	eis environiu	ental, inc.		SAMPLING	INFORMATIO	ON SHEET	
Client	: BEA	CON! #	720	,	Project No	97-7	02
	1088 N		BLVD.	- - Well	Designation	· Mu)	-5
		ANDRO	, CA.	-			
Purging Equ	ipment:		2" Disposat	ole bailer		· · · · · · · · · · · · · · · · · · ·	
J J - 1	•		2" PVC baile			Submersibl	e pump
			4" PVC bail	er		 Dedicated i	pailer
	·	th disposal ha	1		-		
W	/ell Dismeter	: 2" 💆	₹"	4"	6"	g"	
Durge V	of Bardeinline	0 162	0.267	0.653	1 47	8" 2.61	gal/ft.
De	Pepth of well pth to water	27.61	718 Am	Calc	ulated purge: Actual purge:	10.0 g	cul pcl
Meter Calibr	ation		Temp.	£.C.	рH	Turbidity	1
Date		Initial reading		•]
Time	. Ad	justed reading		()			_
Start purge:	050	Sa	mpling time:	D91A	Sa	mpling Date:	5-25-9
	Time	Temp.	E.C.	РH	Turbidity	Volume]
	1023	67.9	.91	5.50		4	
	1027	68.0	.91	5.41		3	
	1000	67,7	٦٧٦	5.45		3	,
							,
		<u> </u>					(1)
			i .				•
QC samp	les collected	Sample at this well:	appearance:	Clove	3/	Lock:	plani
quipment re	placed:	(Check all tha	rt apply)		1		
		Locking Cap Locking Cap			Lock #2357 Lock #3753	·	
Remarks:				lon Sec		0	
Signature	<u> </u>	goro			Review	Na	

AS	es environd	ental, inc.		SAMPLING	INFORMATIC	N SHEET	
Clien Sit	e: 1088 N	CON # MARINA EANDRO	720 BLVD. , CA.	Wel	Project No: Designation:		02
Purging Eq			2" Disposabl 2" PVC baile 4" PVC baile	г		Submersibl Dedicated l	-
			iler or other: _)% recovery.				_
Purge \	Well Diameter Vol. Multiplier Depth of well	0.163	0.367			2.61	g a l/ft.
	epth to water		- -		Actual purge:		-
Meter Calib Date Time	-	Initial reading		E.C.	pH	Turbidity	
Start purge	:	_ Sa	mpling time:	-	San	npling Date:	
	Time		E.C. hos bea locate		Turbidity Al OUM UISI'ble	Volume	·
	oles collected	at this well:				Lock:	
Equipment r	2" 1	(Check all that ocking Cap ocking Cap	<u> </u>		Lock #2357 _ Lock #3753		
Remarks:	paral o	e to	locate	well	appern	s to	
Signature	CL	one)				

AFGIS INVIRONM	ental, inc.		SAMPLING	INFORMATI	ON SHEET	
Client: BEAC Site: 1088 N	CON #	720	-	Project No		
54AL LE	EANDRO	BLVD.	- We	ll Designation	::::	- - -
Purging Equipment:		<u>, CA.</u>	 			
		2" Disposat 2" PVC bail 4" PVC bail	er		_Submersibi _Dedicated`l	•
Sampled wit Well rec	h disposal ba	iller or other:		7		
Well Diameter: Purge Vol. Multiplier:	0.163	3" 0.367	4" 0.653	6" 1.47	8" 2.61	g ai /ft.
Depth of well: Depth to water:				ulated purge: Actual purge:		-
Meter Calibration		Temp.	E.C.	рН	Turbidity	Ī
T: / C.A. A.	Initial reading	60.0	.01	7.0		İ
Time 620 Am Adj	usted reading					[
Start purge:	Sar	mpling time:		Sai	npling Date:	
	·		На		· -	,
Time	Temp.	E.C.	рН	Turbidity	Volume	
Time	Temp.	E.C.			· -	
Time	Temp.	E.C.		Turbidity	Volume	
Time	Temp.	E.C.		Turbidity	Volume	
Time	Temp.	E.C.		Turbidity	Volume	
Time	Temp.	E.C.		Turbidity	Volume	
Time	Temp. Well e to	E.C.		Turbidity	Volume	
QC samples collected and appropriate the collected and col	Sample at this well:	E.C.	eev	Turbidity	Volume	
QC samples collected a quipment replaced: 2" L 4" L	Sample at this well: (Check all that ocking Cap cocking Cap cocking Cap	E.C.	eev	Turbidity	Volume	
QC samples collected a quipment replaced: 2" L 4" L Remarks:	Sample at this well:	E.C.	eev	Turbidity CUPC Lock #2357 Lock #3753	Volume OUTY	ગાન

A A	ASCIS ENVIRONM	ental, inc.		SAMPLING	INFORMAT	ION SHEET	
Clie Si	nt: <u>BEA</u> te: <u>1088 /</u>	CON #	720		Project No	o: <u>92-7</u>	02
		EANDRO	BLVD.		Il Designation	n:	<u>- X</u>
Purging Ed			2" Disposa		<u> </u>		
	,,	X	2" PVC ba			Submersibl	e nump
			4" PVC ba			Dedicated	-
	Complete		••	\		_	
	Sampled with	charged to 8	asier or other	"———			
	77017180	and god to St	- recovery		<u></u>		
	Well Diameter		3"	4"	6"	8*	
Purge	Vol. Multiplier	: 0.163	0.367	0.653		2.61	gai/ft.
	Depth of well	29.86	704 AV	✓\ Calc	uiated purge:	. 11 00	- 1
	epth to water:		•		Actual purge:		5)
· .			•			<u> </u>	-
Meter Calib	oration		Temp.	E.C.	pH	Turbidity	1
Date		Initial reading					1
	• • • • • • • • • • • • • • • • • • • •	usted reading	1	1	1	1	7
Time 🗨					<u> </u>		į
	=: 919 Am			939 An	Sa	mpling Date:	5-25-95
	=: 919 An	Sa	mpling time:	,			5-25-95
	Time	Sa Temp.	mpling time:	рН	Sa Turbidity	mpling Date:	5-25-9
	Time 925 An	Temp.	mpling time:	рн 5.40			5-25-95
	Time 925Ah 929Ah	Temp65.9 67.5	E.C.	5.40 5.38			5-25-95
	Time 925 An	Temp.	mpling time:	рн 5.40			5-25-9
	Time 925Ah 929Ah	Temp65.9 67.5	E.C.	5.40 5.38			5-25-9
	Time 925Ah 929Ah	Temp65.9 67.5	E.C.	5.40 5.38			5-25-9
	Time 925Ah 929Ah	Temp65.9 67.5	E.C.	5.40 5.38			5-25-9
	Time 925Ah 929Ah	Temp. 65.9 67.5 67.7	E.C76 .71	pH 5.40 5.38 5.32			5-25-9
QC same	Time 925Ah 929Ah 926Am	Temp. 65.9 67.5 (27.7)	E.C76 .71	5.40 5.38		Võlume	5-25-95 50) phy
Start purge	Time 925Ah 929Ah 936Am 936Am epiaced:	Temp. 65.9 67.5 67.7 Sample at this well:	E.C76 .71 .68	pH 5.40 5.38 5.32		Võlume	
QC same	Time 925An 929 An 936 Am oles collected a	Sample at this well:	E.C76 .71 .68	5.40 5.38 5.32	Turbidity	Võlume	
QC samp	Time 925Ah 929 Ah 936 Am oles collected a eplaced: 2" L 4" L	Sample at this well: (Check all that ocking Cap ocking Cap	E.C76 .71 .68	9H 5.40 5.38 5.32	Turbidity ock #2357 ock #3753	Völume	Do)phy
QC samp	Time 925Ah 929 Ah 936 Am oles collected a eplaced: 2" L 4" L	Sample at this well:	E.C76 .71 .68	5.40 5.38 5.32	Turbidity	Völume Lock:	Do)phy
QC samp	Time 925Ah 929 Ah 936 Am oles collected a eplaced: 2" L 4" L	Sample at this well: (Check all that ocking Cap ocking Cap	E.C76 .71 .68	9H 5.40 5.38 5.32	Turbidity ock #2357 ock #3753	Völume	Do)phy
QC samp	Time 925Ah 929 Ah 936 Am oles collected a eplaced: 2" L 4" L	Sample at this well: (Check all that ocking Cap ocking Cap	E.C76 .71 .68	9H 5.40 5.38 5.32	Turbidity ock #2357 ock #3753	Völume	Do)phy
QC samp	Time 925Ah 929 Ah 936 Am oles collected a eplaced: 2" L 4" L	Sample at this well: (Check all that ocking Cap ocking Cap	E.C76 .71 .68	9H 5.40 5.38 5.32	Turbidity ock #2357 ock #3753	Völume	Do)phy