

GROUND-WATER SAMPLING REPORT
THIRD QUARTER 1990
BEACON STATION 721
44 LEWELLING BOULEVARD
SAN LORENZO, CALIFORNIA

OUT 23, 90

FOR

ULTRAMAR INC.
525 WEST THIRD STREET
HANFORD, CALIFORNIA 93232

PREPARED BY

DU PONT ENVIRONMENTAL REMEDIATION SERVICES
7068 KOLL CENTER PARKWAY, SUITE 401
PLEASANTON, CALIFORNIA 94566

OCTOBER 23, 1990

JOB NO. 90-Q13-154

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DU PONT ENVIRONMENTAL REMEDIATION SERVICES
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October 23, 1990
Job No. 90-Q13-154

Ultramar Inc.
525 West Third Street
Hanford, California 93232

ATTENTION: Mr. Terrence A. Fox
Environmental Specialist II

SUBJECT: Quarterly Ground-Water Sampling Report
Third Quarter 1990
Beacon Station 721
44 Lewelling Boulevard
San Lorenzo, California

Dear Mr. Fox:

INTRODUCTION

This report presents the results of the quarterly ground-water sampling which was conducted at Beacon Station 714, located at 44 Lewelling Boulevard, San Lorenzo, California (see the Location Map, Figure 1), on September 25, 1990. The purpose of this sampling program is to monitor and evaluate the extent of hydrocarbon contamination in the ground water at the subject property.

SUMMARY

A summary of data regarding ground-water levels for the third quarter 1990 is presented in Table A. In general, ground-water levels have fallen approximately 1.4 feet since the last quarterly sampling. The ground-water gradient for this quarter is directed towards the southwest at a magnitude of approximately 0.01 foot per foot (see the Ground-Water Gradient Map, Figure 2). Chemical analytical results indicate concentrations of petroleum hydrocarbons continue to remain maximum in the area of MW-1 and MW-3 since last quarter (see Table B and Appendix A). Figure 3 presents interpretive isopleths of benzene concentrations within the ground water for the site. This site is scheduled for fourth quarter sampling during December 1990.

Have a safe day,

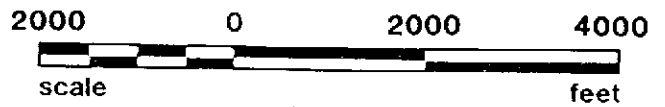
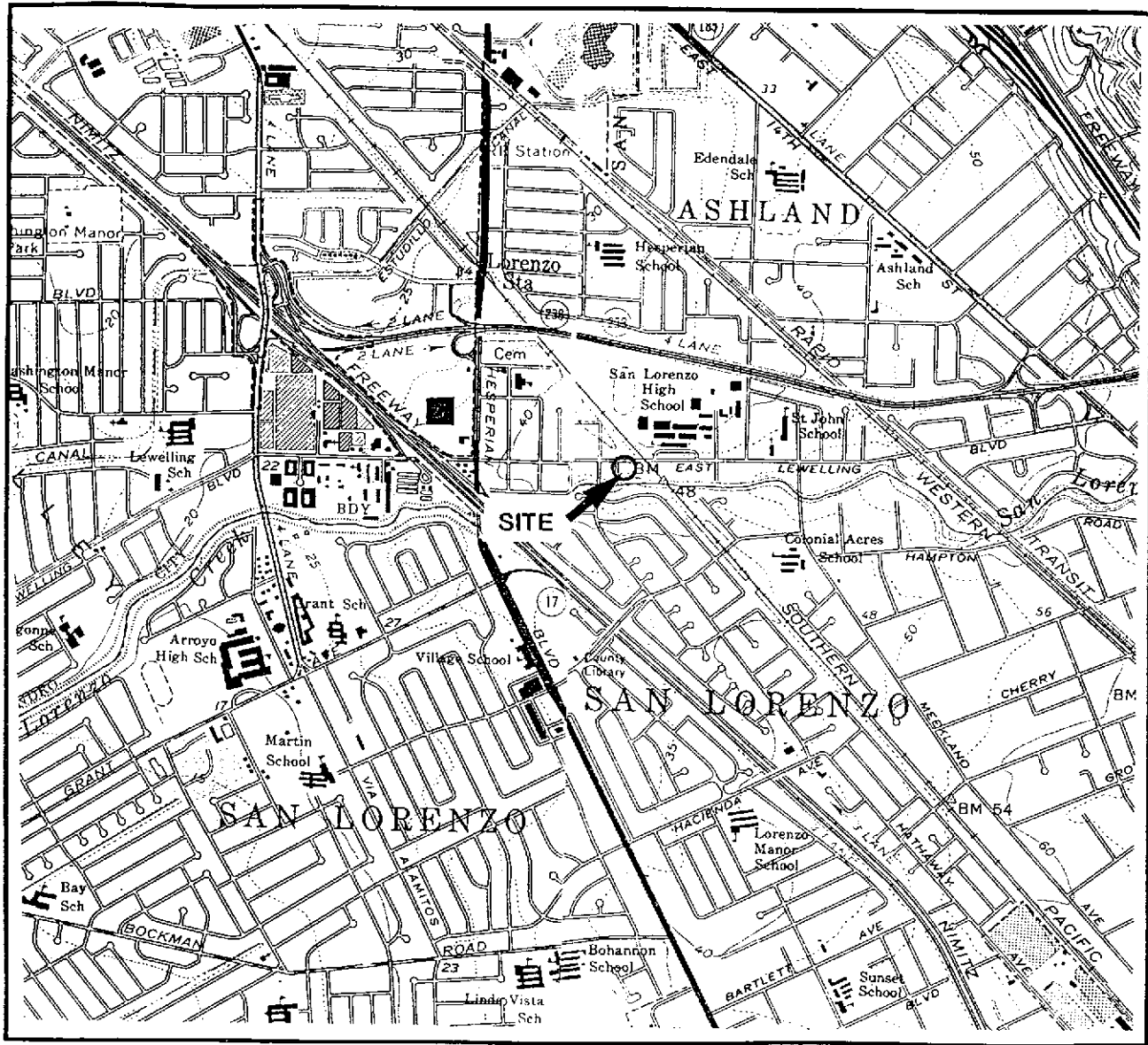
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

Mark Vetter
Project Geologist

David J. Blunt
Registered Geologist, RG 4516

Robert A. Katin, PE, REA
Project Manager

MV/DJB/RAK:vo



LOCATION MAP
 Beacon Station 721
 44 Lewelling Boulevard
 San Lorenzo, California

BASE: A portion of the U.S.G.S. Hayward 7.5 minute quadrangle, dated 1959, photorevised 1980, scale 1:24,000.

Figure 1

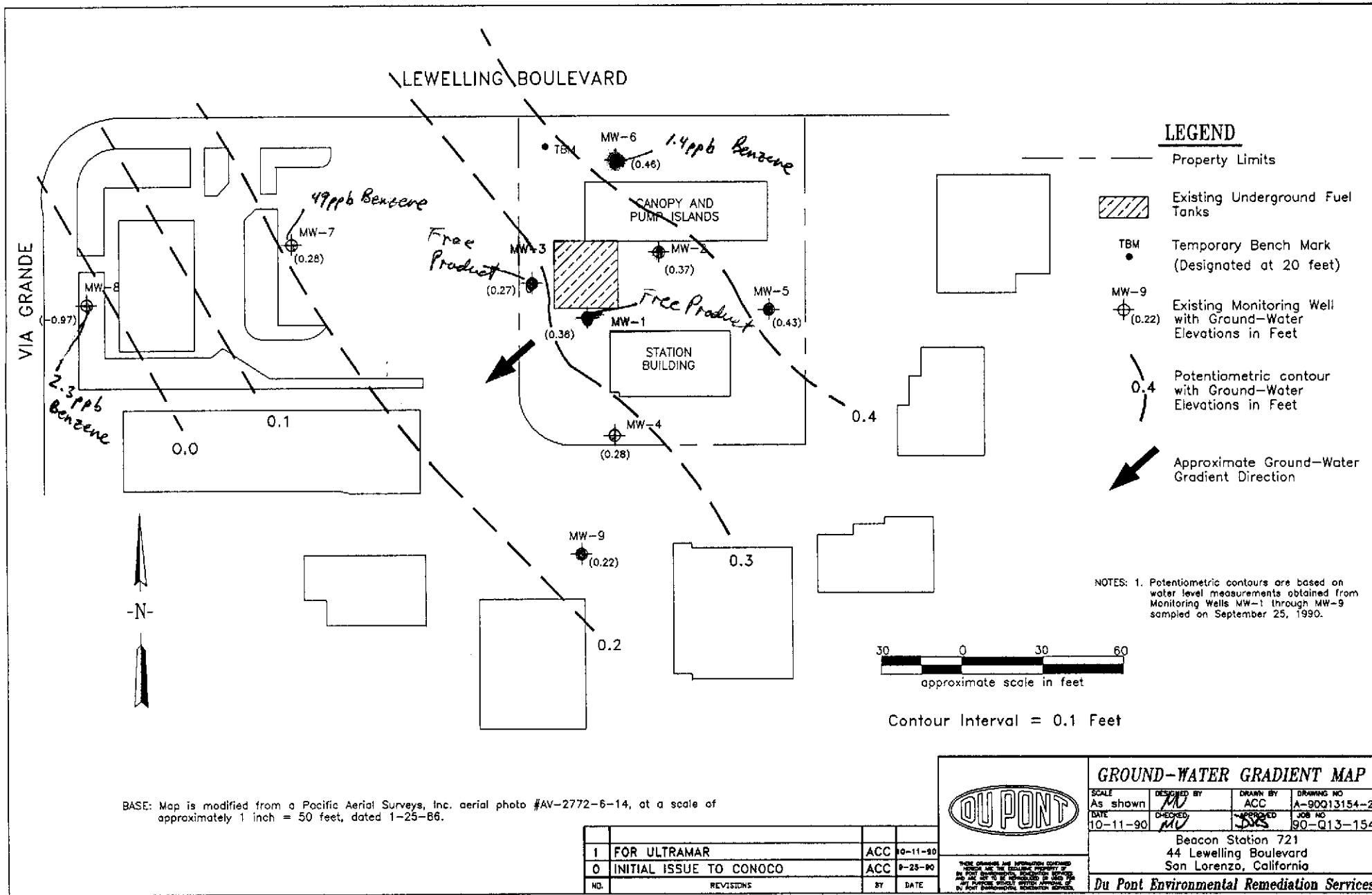
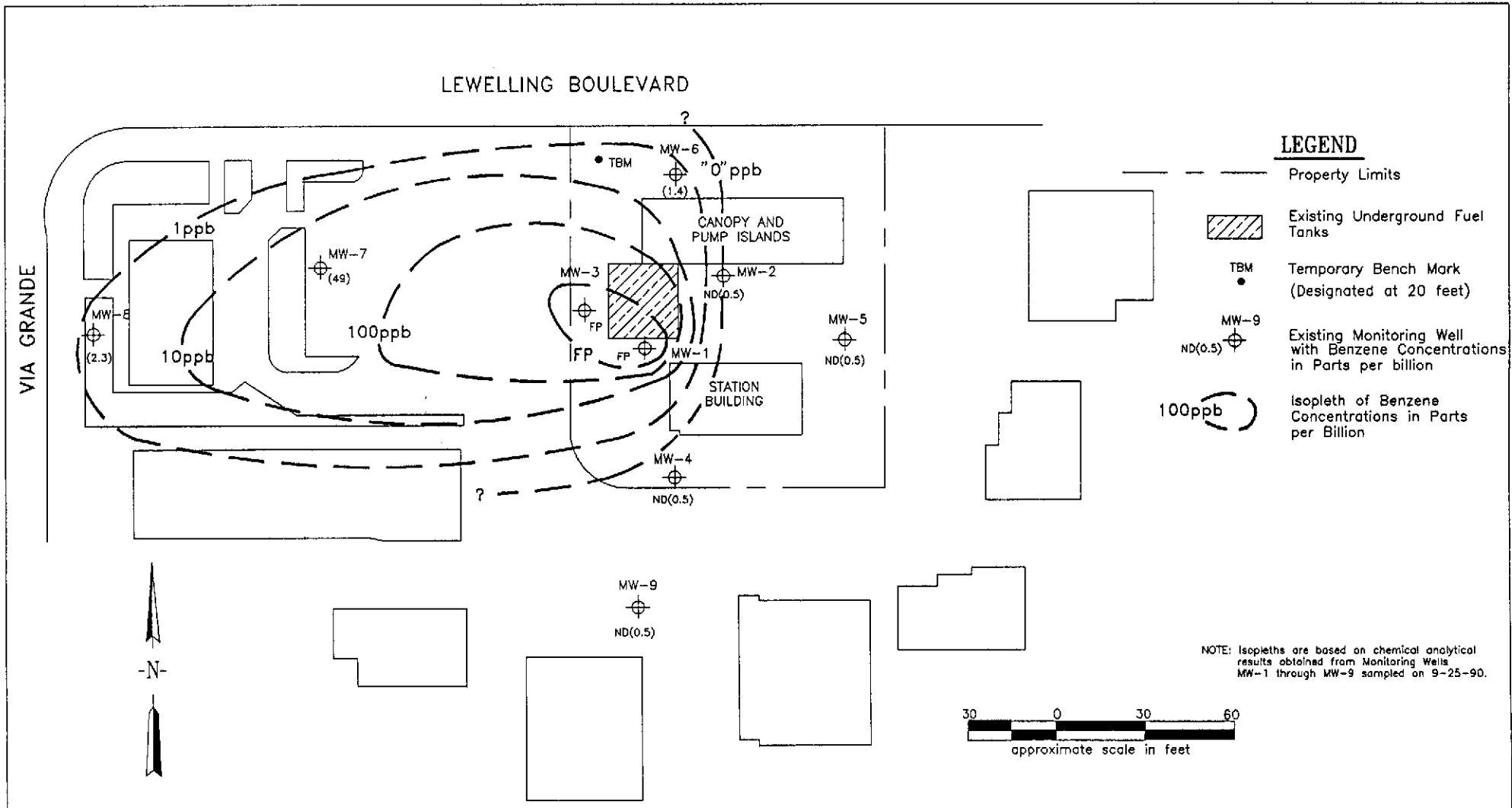




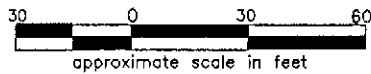
Figure 2



LEGEND

- Property Limits
-  Existing Underground Fuel Tanks
- TBM
• Temporary Bench Mark (Designated at 20 feet)
- MW-9
ND(0.5) Existing Monitoring Well with Benzene Concentrations in Parts per billion
- 100ppb  Isopleth of Benzene Concentrations in Parts per Billion

NOTE: Isopleths are based on chemical analytical results obtained from Monitoring Wells MW-1 through MW-9 sampled on 9-25-90.



BASE: Map is modified from a Pacific Aerial Surveys, Inc. aerial photo #AV-2772-6-14, at a scale of approximately 1 inch = 50 feet, dated 1-25-86.



ISOPLETH MAP OF BENZENE CONCENTRATION IN GROUND WATER

SCALE As shown	DESIGNED BY MD	DRAWN BY ACC	DRAWING NO. A-90013154-3
DATE 10-11-90	CHECKED SAL	APPROVED MS	JOB NO. 90-Q13-154

Beacon Station 721
44 Lewelling Boulevard
San Lorenzo, California

Du Pont Environmental Remediation Services

NO.	REVISIONS	BY	DATE
1	FOR ULTRAMAR	ACC	10-11-90
0	INITIAL ISSUE TO CONOCO	ACC	9-25-90

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Figure 3

TABLE A

GROUND-WATER POTENTIOMETRIC ELEVATIONS

BEACON STATION 721 44 LEWELLING BOULEVARD SAN LORENZO, CALIFORNIA						
WELL ID	TOP OF CASING ELEVATION	DATE SAMPLED	DEPTH TO WATER	FP THICKNESS	POTENTIOMETRIC SURFACE ELEVATION	ELEVATION CHANGE SINCE PREVIOUS MEASUREMENT
MW-1	21.54	10-MAR-88	17.12		4.42	---
		14-JUN-88	18.05		3.49	-0.93
		05-DEC-88	19.48		2.06	-1.43
		08-MAR-89	18.07		3.47	1.41
		22-JUN-89	18.60		2.94	-0.53
		27-SEP-89	19.98		1.56	-1.38
		29-DEC-89	20.45		1.09	-0.47
		29-MAR-90	19.31		2.23	1.14
		21-JUN-90	19.69		1.85	-0.38
		25-SEP-90*	21.88	0.9	0.38	-1.47
MW-2	20.91	10-MAR-88	16.43		4.48	---
		14-JUN-88	17.35		3.56	-0.92
		05-DEC-88	18.79		2.12	-1.44
		08-MAR-89	17.31		3.60	1.48
		22-JUN-89	17.92		2.99	-0.61
		27-SEP-89	19.27		1.64	-1.35
		29-DEC-89	19.75		1.16	-0.48
		29-MAR-90	18.62		2.29	1.13
		21-JUN-90	19.12		1.79	-0.50
		25-SEP-90	20.54		0.37	-1.42
MW-3	20.96	10-MAR-88	16.68		4.28	---
		14-JUN-88	17.59		3.37	-0.91
		05-DEC-88	18.96		2.00	-1.37
		08-MAR-89	17.60		3.36	1.36
		22-JUN-89	18.11		2.85	-0.51
		27-SEP-89	19.47		1.49	-1.36
		29-DEC-89*	19.97	0.02	0.99	-0.50
		29-MAR-90*	17.60	0.04	3.36	2.37
		21-JUN-90	19.35		1.61	-1.75
		25-SEP-90*	20.72	0.04	0.27	-1.61
MW-4	22.52	05-DEC-88	20.47		2.05	2.05
		08-MAR-89	19.03		3.49	1.44
		22-JUN-89	19.57		2.95	-0.54
		27-SEP-89	20.98		1.54	-1.41
		29-DEC-89	21.43		1.09	-0.45
		29-MAR-90	20.29		2.23	1.14
		21-JUN-90	20.78		1.74	-0.49
		26-SEP-90	22.24		0.28	-1.46
MW-5	21.66	05-DEC-88	19.48		2.18	---
		08-MAR-89	18.00		3.66	1.48
		22-JUN-89	18.60		3.06	-0.60
		27-SEP-89	20.00		1.66	-1.40
		29-DEC-89	20.43		1.23	-0.43
		29-MAR-90	19.24		2.42	1.19
		21-JUN-90	19.82		1.84	-0.58
		25-SEP-90	21.23		0.43	-1.41

TABLE A (cont)

WELL ID	TOP OF CASING ELEVATION	DATE SAMPLED	DEPTH TO WATER	FP THICKNESS	POTENTIOMETRIC SURFACE ELEVATION	ELEVATION CHANGE SINCE PREVIOUS MEASUREMENT
MW-6	20.37	05-DEC-88	17.99		2.38	---
		08-MAR-89	16.75		3.62	1.24
		22-JUN-89	17.30		3.07	-0.55
		27-SEP-89	18.64		1.73	-1.34
		29-DEC-89	19.16		1.21	-0.52
		29-MAR-90	18.04		2.33	1.12
		21-JUN-90	18.53		1.84	-0.49
		25-SEP-90	19.91		0.46	-1.38
MW-7	19.40	05-DEC-88	17.61		1.79	---
		08-MAR-89	16.27		3.13	1.34
		22-JUN-89	16.72		2.68	-0.45
		27-SEP-89	17.99		1.41	-1.27
		29-DEC-89	18.54		0.86	-0.55
		29-MAR-90	17.43		1.97	1.11
		21-JUN-90	17.88		1.52	-0.45
		25-SEP-90	19.12		0.28	-1.24
MW-8	19.13	27-SEP-89	18.89		0.24	---
		29-DEC-89	19.45		-0.32	-0.56
		29-MAR-90	18.39		0.74	1.06
		21-JUN-90	18.80		0.33	-0.41
		25-SEP-90	20.10		-0.97	-1.30
MW-9	22.82	27-SEP-89	21.38		1.44	---
		29-DEC-89	21.76		1.06	-0.38
		29-MAR-90	20.58		2.24	1.18
		21-JUN-90	21.11		1.71	-0.53
		25-SEP-90	22.60		0.22	-1.49

- NOTES:
- 1) All elevations surveyed to a temporary bench mark designated 20 feet.
 - 2) Elevations and depths given in feet.
 - 3) Data prior to December 1988 collected by Applied GeoSystems.
 - 4) Monitoring wells MW-4, MW-5, MW-6, and MW-7 installed in December 1988.
 - 5) Monitoring wells MW-8 and MW-9 installed on September 15, 1989.
 - 6) * Ground-water elevations for these quarters were corrected for free-floating gasoline using the equation:

$$GWE = WE - [DTW - (PT \times 0.8)]$$

Where: GWE = Ground-water elevation
 WE = Well elevation at top of casing
 DTW = Depth to water from top of casing
 PT = Product thickness
 0.8 = conversion factor for the difference in specific gravities between water and gasoline (interpolated from Levorsen, GEOLOGY OF PETROLEUM, 1967, p. 193)

TABLE B

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

BEACON STATION 721
44 LEWELLING BOULEVARD
SAN LORENZO, CALIFORNIA

WELL ID	DATE SAMPLED	BENZENE (ug/L)	ETHYLBENZENE (ug/L)	TOLUENE (ug/L)	XYLENES (ug/L)	TPHg (ug/L)	COMMENTS
MW-1	29-MAY-87	490	930	150	3790	18050	
	14-JUL-87	560	950	120	3270	14750	
	17-AUG-87	630	320	40	1130	12860	
	01-SEP-87	558	562	84	1942	14269	
	10-DEC-87	200	273	138	777	14000	
	10-MAR-88	70	340	40	940	7300	
	14-JUN-88	290	330	ND(10)	790	34000	
	05-DEC-88	100	140	16	310	4000	
	08-MAR-89	670	580	20	1200	9100	Odor, Sheen
	22-JUN-89	1000	1200	20	2200	12000	Odor, Sheen
	27-SEP-89	960	260	9	360	6800	Odor
	29-DEC-90	210	1200	33	250	4800	
	29-MAR-90	1100	510	42	1800	14000	Odor
	21-JUN-90	1400	160	ND(30)	130	7900	
25-SEP-90	NS	NS	NS	NS	NS	0.9' Free-Product	
MW-2	29-MAY-87	113	46	14	58	4870	
	14-JUL-87	103	34	25	48	2207	
	17-AUG-87	37.6	8.2	10.9	11.1	756	
	01-SEP-87	75.3	16.4	14.2	27.6	1482.5	
	10-DEC-87	28	38.1	40.6	100.3	1800	
	10-MAR-88	9.2	7.3	3.1	2.6	1200	
	14-JUN-88	ND(0.9)	2.2	ND(1.0)	5.7	500	
	05-DEC-88	ND(0.3)	5.6	1.3	3.6	500	
	08-MAR-89	ND(1.0)	3.5	1.3	3.7	730	
	22-JUN-89	ND(0.4)	ND(0.5)	ND(0.4)	ND(0.8)	570	
	27-SEP-89	3.8	2.9	0.64	54	420	
	29-DEC-89	6.7	5.7	2.0	2.9	270	
	29-MAR-90	10	10	0.88	3.3	420	
	21-JUN-90	ND(1)	4	ND(1)	ND(4)	650	
25-SEP-90	ND(0.5)	3.5	1.5	1.5	680		
MW-3	29-MAY-87	5400	1700	3900	5200	40300	
	14-JUL-87	6880	1580	7080	4770	30320	
	17-AUG-87	5930	1240	4180	3370	25620	
	01-SEP-87	8540	1020	6660	3740	38210	
	10-DEC-87	4240	890	2350	1860	25000	
	10-MAR-88	3210	940	950	950	13400	
	14-JUN-88	5900	450	7600	4600	54000	
	05-DEC-88	4200	1000	2400	3100	19000	Odor
	08-MAR-89	11000	2300	9400	9900	53000	Odor, Sheen
	22-JUN-89	16000	2100	5900	6600	60000	Odor, Sheen
	27-SEP-89	8100	1200	2800	4300	34000	Odor
	29-DEC-89	NS	NS	NS	NS	NS	0.02' Free Product
	29-MAR-90	NS	NS	NS	NS	NS	0.04' Free Product
	21-JUN-90	19000	22000	22000	120000	2100000	
25-SEP-90	NS	NS	NS	NS	NS	0.04' Free Product	

TABLE B

(continued)

WELL ID	DATE SAMPLED	BENZENE (ug/L)	ETHYLBENZENE (ug/L)	TOLUENE (ug/L)	XYLENES (ug/L)	TPHg (ug/L)	COMMENTS
MW-4	05-DEC-88	ND(2.0)	2.3	ND(2.0)	6.5	4500	
	08-MAR-89	ND(9.0)	ND(10)	ND(8.0)	ND(10)	3900	
	22-JUN-89	ND(0.4)	ND(0.5)	ND(0.4)	ND(0.8)	1500	
	27-SEP-89	11	ND(1)	ND(1)	ND(4)	1200	
	29-DEC-89	ND(1)	2.3	2.1	ND(3)	920	
	29-MAR-90	ND(0.6)	8.0	ND(0.9)	ND(3)	870	
	21-JUN-90	ND(5)	ND(6)	ND(5)	ND(20)	1500	
	25-SEP-90	ND(0.5)	4.6	11	6.0	3100	
MW-5	05-DEC-88	ND(0.2)	0.23	0.78	0.92	3.9	
	08-MAR-89	2.7	2.7	6.7	15	58	
	22-JUN-89	0.91	ND(0.1)	ND(0.1)	ND(0.3)	5.0	
	27-SEP-89	1.3	ND(0.1)	ND(0.1)	ND(0.4)	5.3	
	29-DEC-89	ND(0.5)	ND(0.5)	ND(0.5)	ND(2)	ND(5)	
	29-MAR-90	ND(1)	ND(0.5)	ND(0.5)	ND(2)	ND(5)	
	21-JUN-90	ND(0.7)	ND(0.7)	ND(0.6)	ND(2)	12	
	25-SEP-90	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(20)	
MW-6	05-DEC-88	4.0	0.63	1.3	1.3	190	
	08-MAR-89	2.2	ND(0.5)	ND(0.4)	1.1	23	
	22-JUN-89	0.82	0.18	2.6	1.2	57	
	27-SEP-89	0.2	ND(0.1)	0.24	ND(0.4)	2.1	
	29-DEC-89	ND(0.5)	ND(0.5)	ND(0.5)	ND(2)	ND(5)	
	29-MAR-90	2.1	ND(0.5)	ND(0.5)	ND(2)	12	
	21-JUN-90	ND(0.7)	ND(0.7)	ND(0.6)	ND(2)	ND(5)	
	25-SEP-90	1.4	ND(0.5)	ND(0.5)	ND(0.5)	98	
MW-7	05-DEC-88	140	40	150	370	1500	
	08-MAR-89	730	180	72	370	2400	
	22-JUN-89	570	180	43	220	2000	
	27-SEP-89	420	140	5.9	28	1400	
	29-DEC-89	87	18	3.5	15	150	
	29-MAR-90	110	53	40	150	530	
	21-JUN-90	620	290	34	400	4100	
	25-SEP-90	49	30	2.4	42	750	
MW-8	27-SEP-89	ND(1)	16	ND(1)	ND(1)	4200	
	29-DEC-89	ND(1)	18	3.2	ND(3)	2800	
	29-MAR-90	ND(6)	19	ND(9)	ND(30)	2600	
	21-JUN-90	ND(2)	13	ND(2)	ND(6)	4600	
	25-SEP-90	2.3	16	22	26	4500	
MW-9	27-SEP-89	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.4)	25	
	29-DEC-89	ND(0.5)	ND(0.5)	ND(0.5)	2.5	11	
	29-MAR-90	ND(0.5)	ND(0.5)	ND(0.5)	ND(2)	ND(5)	
	21-JUN-90	ND(0.5)	ND(0.6)	ND(0.5)	ND(2)	ND(5)	
	25-SEP-90	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(20)	

- NOTES:
- 1) TPHg = Total Petroleum Hydrocarbons (as gasoline).
 - 2) ND = Not Detected, detection limit shown in parentheses.
 - 3) Odor refers to petroleum hydrocarbon odor.
 - 4) All results are presented in parts per billion.
 - 5) Samples prior to December 1988 taken by Applied GeoSystems.
 - 6) NS = Not Sampled.

GROUND-WATER MONITORING AND SAMPLING PROCEDURES

Prior to sampling, the depth to water was measured in all monitoring wells using an electronic immersion probe. All measurements were read to the nearest 0.01 foot. If free product was present, the depth to free product and the depth to water were measured using an interface probe and an observation sample was collected with a clear teflon bailer for confirmation. No analytical samples were collected from monitoring wells containing more than 0.25 inch of free product.

The monitoring wells were sampled on September 25, 1990. Prior to purging, each well was checked with a clear teflon bailer in order to observe the possible presence of floating hydrocarbons. Purging was accomplished using a stainless steel or teflon bailer. The bailer was thoroughly cleaned prior to each sampling using a trisodium phosphate (TSP) solution followed by a 10% methyl alcohol solution, and then rinsed twice with potable water. The wells were purged prior to sampling until pH, conductivity, and temperature values stabilized. Generally, this resulted in the removal of approximately 3 to 5 well volumes of ground water from each well during the purging process. The water obtained from purging was placed in labeled 55-gallon drums and stored on-site. The bailer rope was replaced after each sampling. Samples recovered from each well were decanted into two appropriately prepared and labeled 40-ml volatile organic analysis (VOA) bottles. A travel blank (numbered as MW-A) was submitted for quality assurance. One travel blank per site will be analyzed. Duplicate samples will only be analyzed by the laboratory when directed by Du Pont Environmental Remediation Services. The sample bottles were immediately placed in an ice chest and maintained at 4 ° C until delivery to a State of California licensed laboratory. Routine chain-of-custody procedures were employed.

APPLIED ANALYTICAL

Environmental Laboratories

42501 Albrae St., Suite 100
Fremont, CA 94538
Bus: (415) 623-0775
Fax: (415) 651-8647

ANALYSIS REPORT

1020lab.frm

Attention: Mr. S. Pierce
DuPont Environmental Remediation
7068 Koll Center Parkway #401
Pleasanton, CA 94566
Project: 90-Q13-154, 19505-L

Date Sampled: 09-25-90
Date Received: 09-26-90
BTEX Analyzed: 09-28-90
TPHg Analyzed: 09-28-90
TPHd Analyzed: NR
Matrix: Water

	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPHg	TPHd
	ppb	ppb	ppb	ppb	ppb	ppb
Detection Limit:	0.5	0.5	0.5	0.5	20	100

SAMPLE Laboratory Identification

MW-2 W1009299	ND	1.5	3.5	1.5	680	NR
MW-4 W1009300	ND	11	4.6	6.0	3100	NR
MW-5 W1009301	ND	ND	ND	ND	ND	NR
MW-6 W1009302	1.4	ND	ND	ND	98	NR
MW-7 W1009303	49	2.4	30	42	750	NR

ppb = parts per billion = $\mu\text{g/L}$ = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX— Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg—Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.



Laboratory Representative

October 2, 1990

Date Reported

APPLIED ANALYTICAL

Environmental Laboratories

42501 Albrae St., Suite 100
Fremont, CA 94538
Bus: (415) 623-0775
Fax: (415) 651-8647

ANALYSIS REPORT

1020lab.frm

Attention: Mr. S. Pierce
DuPont Environmental Remediation
7068 Koll Center Parkway #401
Pleasanton, CA 94566
Project: 90-Q13-154, 19505-L

Date Sampled: 09-25-90
Date Received: 09-26-90
BTEX Analyzed: 09-28-90
TPHg Analyzed: 09-28-90
TPHd Analyzed: NR
Matrix: Water

	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPHg	TPHd
	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
Detection Limit:	0.5	0.5	0.5	0.5	20	100

SAMPLE Laboratory Identification

MW-8 W1009304	2.3	22	16	26	4500	NR
MW-9 W1009305	ND	ND	ND	ND	ND	NR
MW-A W1009306	ND	ND	ND	ND	ND	NR

ppb = parts per billion = $\mu\text{g/L}$ = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

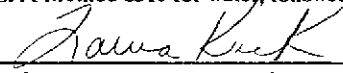
NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX— Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg—Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.



Laboratory Representative

October 2, 1990

Date Reported



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) Bill Bassett			ANALYSES				Date 9/25/90	Form No. / of /							
Project No. 90-Q13-154		Sampler (Signature) <i>Bill Bassett</i>			<table border="1"> <tr> <td rowspan="3">No. of Containers</td> <td colspan="4">Normal TAT Preserved with HCl Stored in wet ice at 4°C</td> </tr> <tr> <td colspan="4">REMARKS</td> </tr> </table>				No. of Containers	Normal TAT Preserved with HCl Stored in wet ice at 4°C				REMARKS			
No. of Containers	Normal TAT Preserved with HCl Stored in wet ice at 4°C																
	REMARKS																
	Project Location San Lorenzo		Affiliation Du Pont Environmental														
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)											
MW-2	9/25/90			✓	✓					2							
MW-4	↓			✓	✓					2							
MW-5				✓	✓					2							
MW-6					✓	✓					2						
MW-7					✓	✓					2						
MW-8					✓	✓					2						
MW-9					✓	✓					2						
MW-A					✓	✓					2						
Relinquished by: (Signature/Affiliation) <i>Bill Bassett</i> / DERS		Date 9/26/90	Time 10:00 AM	Received by: (Signature/Affiliation) <i>William Caplan</i>				Date 9/26/90	Time 10-11 A.M.								
Relinquished by: (Signature/Affiliation) <i>William Caplan</i>		Date 9/26/90	Time 11:00 A.M.	Received by: (Signature/Affiliation) <i>John Gordon Express H Couriers</i>				Date 9/26/90	Time 11:00								
Relinquished by: (Signature/Affiliation) <i>John Gordon Express H.</i>		Date 9-26-90	Time 11:30	Received by: (Signature/Affiliation) <i>Christina Slamm Applied Systems</i>				Date 9-26-90	Time 11:30								
Report To: Du Pont Environmental Remediation Services 7068 Koll Center Parkway #401 Pleasanton CA 94566				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Glenn Dembrott													

GROUND-WATER MONITORING WELL
FIELD SAMPLING DATA SHEET

SITE: Beacon 721, San Lorenzo JOB # 90-Q13-154

DATE: 9/25/90

WELL # MW-6
CASING DIAMETER 2-inch
DEPTH TO WATER 19.91
TOTAL DEPTH 28.4
WELL VOLUME 1.4 gal
PURGE METHOD bailer

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	6.9	694	20.3
1	6.7	639	19.9
2	6.65	499	19.9
<i>bailed dry. Recharged to 20.50 then sampled.</i>			

WELL # MW-7
CASING DIAMETER 2-inch
DEPTH TO WATER 19.12
TOTAL DEPTH 24.1
WELL VOLUME 0.8 gal
PURGE METHOD bailer

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	6.74	767	20.7
1	6.68	778	20.6
2	6.67	755	20.5
3	6.72	783	20.5
4	6.74	775	20.5
5	6.75	777	20.5

WELL # MW-8
CASING DIAMETER 2-inch
DEPTH TO WATER 20.10
TOTAL DEPTH 23.1
WELL VOLUME .5 gal
PURGE METHOD bailer

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	6.82	1214	20.7
<i>bailed dry @ 1 gallon. Recharged to 20.52 then sampled</i>			

WELL # MW-9
CASING DIAMETER 2 inch
DEPTH TO WATER 22.6
TOTAL DEPTH 23.6
WELL VOLUME .2 gal
PURGE METHOD bailer

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	6.83	851	20.7
<i>bailed dry @ 1/2 gallon. Recharged to 22.81 & sampled</i>			

Sampled by: BB

GROUND-WATER MONITORING WELL
FIELD SAMPLING DATA SHEET

SITE: BENCON 721, San Lorenzo JOB # 90-Q13-154

DATE: 9/25/90

WELL # MW-1 + MW-3
CASING DIAMETER 2-inch 2-inch
DEPTH TO WATER 21.88 20.68
TOTAL DEPTH _____
WELL VOLUME _____
PURGE METHOD _____

WELL # MW-2
CASING DIAMETER 2-inch
DEPTH TO WATER 20.54
TOTAL DEPTH 33.3
WELL VOLUME 1.8 gal
PURGE METHOD bailer

GALLONS PURGED	pH	Conduc-tivity	Temp.
0.9' free product in MW-1			
0.04' free product in MW-3			
Neither well sampled.			

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	6.77	664	20.8
1	6.80	691	20.7
3	6.82	709	20.7
5	6.86	699	20.7
7	6.88	695	20.6
9	6.89	694	20.6

WELL # MW-4
CASING DIAMETER 2-inch
DEPTH TO WATER 22.24
TOTAL DEPTH 24.5
WELL VOLUME .3 gal
PURGE METHOD bailer

WELL # MW-5
CASING DIAMETER 2-inch
DEPTH TO WATER 21.23
TOTAL DEPTH 29.1
WELL VOLUME 1.3 gal
PURGE METHOD bailer

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	7.61	458	20.4
1/2	7.14	489	20.3
3/4	6.92	506	20.2
bailed dry. Recharged to 22.5' and sampled.			

GALLONS PURGED	pH	Conduc-tivity	Temp.
I	6.76	580	20.7
1	6.88	519	20.1
2	7.00	555	20.3
3	7.09	519	19.9
4	7.14	519	19.9
5	7.17	521	19.9
6	7.20	520	19.9
7	7.21	480	19.9
8	7.21	479	19.9

Sampled by: BB