

October 13, 1992

Mr. Rich Mueller City of Pleasanton Fire Department P.O. Box 520 Pleasanton, California 94566-0802

30-0065-10

7-04 1200

Subject:

3rd Quarter 1992 Ground Water Monitoring and Sampling Report

Former Mobil Station 04-H6J

1024 Main Street Pleasanton, California

Dear Mr. Mueller:

In accordance with our agreement, enclosed is the third quarter, 1992, Ground Water Monitoring and Sampling Report for former Mobil Station 04-H6J, 1024 Main Street, Pleasanton, California (Figure 1). Alton Geoscience has conducted ground water monitoring and sampling at the site since April 16, 1990. The project background is presented in Appendix A.

#### FIELD ACTIVITIES

On July 31, 1992, Alton Geoscience performed ground water monitoring and sampling of Wells MW-1, MW-4, MW-5, MW-6 and MW-9. Monitoring and sampling of the wells was performed in accordance with requirements and procedures of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), and local regulatory agencies. Wells MW-3, MW-8 and MW-7 were dry. Well MW-5 was determined to contain insufficient water to sample. MW-2 was found to contain 0.15 foot of free-floating hydrocarbons using an interface probe. Approximately 2 ounces of free-floating hydrocarbons were removed from the MW-2 by hand bailing. Water samples were analyzed for total petroleum hydrocarbons quantified as gasoline (TPH-G), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

Alton Geoscience ground water monitoring and sampling protocol and field survey forms are presented in Appendix B. The official laboratory reports and chain of custody record are presented in Appendix C.

#### DISCUSSION OF RESULTS

Analytical results for this and previous ground water monitoring and sampling events are summarized in Table 1. A ground water elevation contour map, based on fluid level measurements collected July 31, 1992, is shown in Figure 2.

measurements collected July 31, 1992, is shown in Figure 2.

Previous investigations indicated the presence of two water bearing zones beneath the site. The shallower zone, in which Monitoring Wells MW-3, MW-5, MW-7, and MW-8 are completed, has been intermittently dry since August 1991. Historically, monitoring of these wells has indicated significant fluctuations in ground water levels. Results of ground water monitoring and sampling indicate the following:

- The apparent ground water gradient direction for the July 31, 1992, monitoring event is southeasterly beneath the building, and northeasterly beneath the southwestern corner of the site.
- TPH-G ranging from 270 to 9,400 parts per billion (ppb) was detected in Wells MW-4, MW-6, MW-8, and MW-9; MW-6 contained the highest concentration.
- Benzene was detected in Wells MW-4, MW-6, and MW-9 at 320, 1500, and 1,800 ppb.

### ALTON GEOSCIENCE

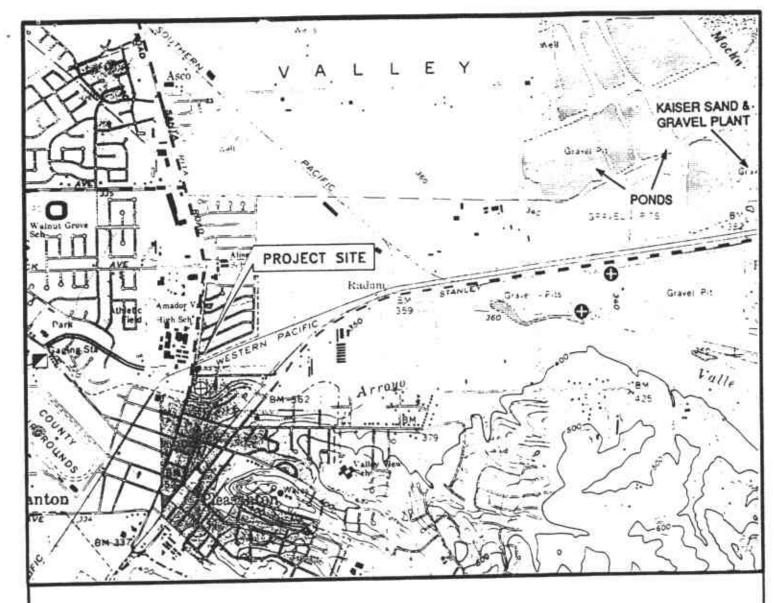
D. Maslonkowski F-&

Gerald H. Nieder-Westermann Geologist

Demic Marcha lawski

Dennis Maslonkowski, R.G. 5299

Senior Hydrogeologist

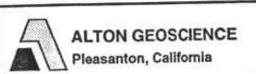






Source: U.S.G.S. Map Dublin/Livermore Quadrangles California







- U.S.G.S. Guaging Station
- City of Pleasanton Monitoring Well
- Kaiser Discharge to Arroyo Valle



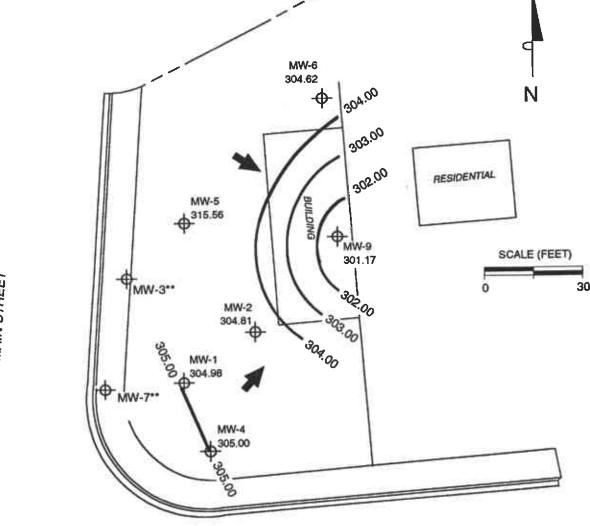
Former Mobil Station 04-H6J 1024 Main Street Pleasanton, California

FIGURE 1

Project No. 31-0065

Quadrangle location

# Ground water monitoring well Ground water elevation, in feet above mean sea level [NGVD-1929] Ground water elevation contour line General direction of ground water gradient



MAIN STREET

ф<sup>336,86</sup>

## NOTE:

All structure & well locations are estimated.
\*\* = Well dry July 31, 1992.



## GROUND WATER CONTOUR MAP

Former Mobil Station 04-H6J 1024 Main Street Pleasanton, California

FIGURE 2

TABLE 1
Results of Ground Water Monitoring and Sampling
Former Mobil Sharm Station Not 10-H6J
1024 Main Street Pleasanton, California
Project No 30-065

## Concentrations in parts per billion (ppb)

SAMPLE ID	DATE OF SAMPLING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	PRODUCT THICKNESS	TPH-G	трн-о	В	T	E	x	1,2-DCE	Organic Lead	Total Lead	LAB
				000.40	0,00	3600		73	13	3	180	45	ND<10		SAL
MW-1	04/16/90	348.03	21.60	326.43	0.00	5000	ND<1000	700	360	170	480	54			SAL
MW-1	10/18/90	348.03	43.16	304.85	0.00	2600		310	340	110	340	ND<25		ND<5.0	SAL
MW-1	08/06/91	348.03	38.65	309.38	0.00	2400		270	370	18	340	14	NO<50		SAL
MW-1	01/08/92	348.03	38.68	309.35	0.00	1300		150	120	12	160	4.3		was a sandara da a sandara da	SEQ
MW-1	04/30/92	348.03	39.93	308.10	0.00	ND<50		ND<0.5	ND<0.5	ND<0.5	ND<0.5	***			8EQ
MW-+1	07/31/92	348,09	43.05	304.00	esses. WWwsiasse	Silah-mass	21/49/2000/000000000-01/46/9/0	(1996) Section 1997 (1997)	AV-Shrongan-recognists	20					
		<del>-</del>		202.49	0.00	64000		5500	7600	1900	7800	200	ND<10		SAL
MW-2	04/16/90	348.45	45.27	303.18	0.00	83000	10000	6800	9100	2400	11000	460			SAL
MW-2	10/18/90	348.45	43.16	305.27	0.00	160000		16000	25000	4300	19000	330		330	SEQ
MW-2	08/05/91	348.45	39,19	309.26		NOT CAMO		ESENCE OF FRE							NA
MW-2	01/08/92	348.45	30.40	309.07	0.02	71000		9200	19000	3700	15000	420			SEQ
MW-2	04/30/92	348,45	40.50	307.95	0.00	NOTERMO		ESENCE OF FRE							NA
MW-2	07/31/92	348.45	43.64	304.93	0.15	NUI SAMP	LED DUE TO PA	ESCHOE OF THE	ETHODOOT						
								32	56	31	170	117	ND<10		SAL
MW-3	04/16/90	347.97	21.60	326.37	0.00	2100	ND<1000	3	3	1	5	2			SAL
MW-3	10/18/90	347.97	14.28	333.69	0.00	110		-	_	•	*				NA
MW-3	06/06/91	347.97	33.19	314.78	0.00			SAMPLE COLLE	26	8.5	72	5.7			SEQ
MW-3	01/08/92	347.97	32.36	315.61	0.00	680		8.9		6.0	•-	•			NA
MW-3	04/30/92	347.07	33.15	314.62	0.00	INBUFFICIE	INT WATERFOR	8AMPLE COLLE							NA
MW-3	07/31/92	347.97	DRY												
	0.,0.,00									200	1200	و			SAL
MW-4	10/18/90	348.07	43.15	304.91	0.00	9600	2000	180	500	200	650	ND<25		ND<5.0	SEQ
MW-4	08/06/91	348.07	38.65	309.42	0.00	8600		320	420	220		9.2	ND<50		SEQ
MW-4	01/08/92	348.07	38.65	309.42	0.00	3400		600	880	220	1100		70		SEG
MW-4	04/30/92	348.07	39.88	308.19	0.00	7200		650	1200	210	1200	ND<50			SEQ
MW-4	07/91/92	348.07	43.07	305.00	0.00	3800		320	340	120	360		8.2.3 <del>.5.5</del> .	www.sati	distribution
A		Company of the contract of the	6000 6 000 6 and and and an experience of	AAAAAAAAAAAAAAAA											NA
MW-5	10/18/90	347.97	INACCESSABLE		0.00										NA
MW-5	06/06/91	347.97	34.25	313.72	0.00	INSUFFICI	ENT WATER FOR	SAMPLE COLLE	CTION						NA
MW-5	01/08/92	347.97	34.22	313.75	0.00	INSUFFICE	ENT WATER FOR	R SAMPLE COLLE	ECTION						NA.
MW-5	04/30/92	347.97	DRY												NA NA
MW-5	07/31/92	347.97	34.41	313.56	0.00	INSUFFICE	ENT WATERFOI	R SAMPLE COLLS	ECTION						144
M17-0	0.,0.,00										45	4.40			SAL
MW-6	10/18/90	348.23	43.60	304.63	0.00	3000	ND<1000	1300	150	120	85	140		ND<5.0	SEQ
MW-6	08/08/91	348.23	39.07	309.10	0.00	1600		220	10	5.2	14	8.3	ND<50		SEQ
MW-6	01/08/92	348.23	39.18	309.05	0.00	370		61	3.0	4.5	2.9	5,4			SEQ
MW-0	04/30/92	348.23	40.45	307.77	0.00	610		180	8.4	6.8	3.3	7.0		sources and appropriate a	
MW+6	07/31/92	348.23	43.61	304.62	0.00	9400	****	1500	1500	270	1100	*********	::::::::::::::::::::::::::::::::::::::	88 88 8 <del>7 7 7</del> 7	8EQ
PRESIDENCE (1997)	on processor and marketing of Times	ara wasan san san Sasar										ND -0 5			SAL
MW-7	10/18/90	347.00	9.25	338.64	0.00	ND<50	ND<1000	0.3	0.5	ND<0.3	0.8	ND<0.5			NA NA
MW-7	08/06/91	347.90	24.20	323.70	0.00	INSUFFICI	ENT WATER FO	R SAMPLE COLLI							SEQ
MW-7	01/08/92	347.90	23.79	324.11	0.00	220		7.8	1.7	ND<0.3	0.55			-~-	NA NA
MW-7	04/30/92	347.90	24.40	323.50	0.00	INSUFFICI	ENT WATERFO	R SAMPLE COLLI	ECTION						NA NA
MW-7	07/31/92	347.90	DRY												PIA

TABLE 1 Results of Ground Water Monitoring and Sampling Former Mobil Service Station No. 10-H6J 1024 Main Street Pleasanton, California Project No 30-065

## Concentrations in parts per billion (ppb)

SAMPLE ID	DATE OF BAMPLING	CABING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	PRODUCT THICKNESS	TPH-G	TPH-D	B	Т	E	x	1,2-DCE	Organic Lead	Total Land	LAB
MW-8 MW-8 MW-8	10/18/90 08/05/91 01/08/92 04/30/92	348.90 348.90 348.90 348.90	11.30 28.50 DRY DRY	337.60 320.30 			ND<1000 INT WATERFOR	3 SAMPLE COLLE	5 ECTION  ND<0.5	7  ND<0.5	62  1.2	ND<0.5		 	SAL NA NA NA SEQ
MW-9 MW-9 MW-9	07/31/92 02/04/92 04/30/92 07/31/92	348.90 348.53 348.53 348.53	12.04 43.54 42.83 47.30	396.80 304.90 305.70 901.17	0,00 0,00 0,00 0,00	270 * 16000 5600 9900	 	ND<0.5 3000 1000 1800	740 120 1900	1200 410 620	2500 350 940	68 ND<50	===	ND<5.0	SEQ SEQ

## EXPLANATION OF ABBREVIATIONS:

:total petroleum hydrocarbons quantified as gasoline :total petroleum hydrocarbons quantified as diesel TPH-G TPH-D :benzene В Ē :toluene :ethylbenzene :total xylenes

:not detected at or above reported detection limit ND

:not applicable/not analyzed

reported by laboratory as non gasoline mixture

1,2-DCE :1,2-Dichloroethane . SAL :Superoir Analytical Laboratories

:Sequoia Analytical 8EQ

# APPENDIX A PROJECT BACKGROUND

## PROJECT BACKGROUND

March 1989: A soil gas survey was conducted by Target Environmental Services (TES). Hydrocarbon vapors were detected in soil near the existing pump islands.

October 1989: Balch Petroleum removed three underground fuel storage tanks and an underground waste oil tank. Analysis of soil samples collected from the western boundary of the fuel tank cavity detected between 890 parts per million (ppm) and 2,400 ppm total petroleum hydrocarbons as gasoline (TPH-G). Following removal of the tanks approximately 260 yards of hydrocarbon-affected soil were excavated, sampled, aerated onsite, and subsequently removed for disposal.

June 1, 1990: Alton Geoscience submitted a site investigation report. Eight exploratory soil borings were drilled, three of which were subsequently converted to Monitoring Wells MW-1, MW-2, and MW-3. The geology of the site indicates the presence of two aquifers, separated by a difference in ground water elevations of approximately 20 feet. The highest hydrocarbon concentrations were detected in soil samples collected between 25 and 45 feet below grade with up to 3,500 ppm TPH-G.

January 15, 1991: Alton Geoscience submitted a supplemental site investigation report. Five additional monitoring wells MW-4 through MW-8 were installed. Two water bearing zones were encountered within 50 feet below grade (fbg), and appeared to be separated vertically and laterally by a less permeable clay. The ground water gradient of the upper water bearing zone was directed towards the northeast, and the lower to the northwest. Aquifer testing was performed on both water bearing zones. Adsorbed-phase hydrocarbons appeared limited to the vicinity of the former pump islands and north-northeast of the former underground fuel storage tanks.

August, 1991: Alton Geoscience supervised Earth Technology Corporation during a geotechnical survey using cone penetrometer test (CPT) methods and ground water sampling using a hydropunch tool. Nine CPT soundings were conducted and eight water samples collected. CPT results were used to help define the stratigraphy beneath the site. Results of CPT soundings and hydropunch sampling are summarized in the Alton Geoscience report dated July 31, 1992.

October 24 and 25, 1991: Alton Geoscience supervised Balch Petroleum during trenching operations beneath the location of the former pump islands. Analysis of soil samples collected during the excavation revealed the presence of hydrocarbon-affected soil. Approximately 100 yards of soil were excavated and stockpiled onsite.

August to November 1991: Alton Geoscience continuously monitored ground water levels from several wells using a data logger. Significant changes in ground water elevations were observed. Significant fluctuations in ground water elevations have been noted by Zone 7 in Monitoring Well 3S/1E 16P 5, located approximately 250 feet south of the site.

January 8, 1992: Trenches excavated by Balch Petroleum in October 1991 were backfilled by Balch Petroleum.

January 29 and 30, 1992: Alton Geoscience supervised Clear Heart Construction during drilling of MW-9 (SB-14) and SB-15 inside the former station building.

March 2 and 3, 1992: Alton Geoscience performed two constant rate pumping tests on MW-1 and MW-2. Pumping test results are presented in Alton Geoscience report dated July 31, 1992.

July 31, 1992: Alton Geoscience submitted Supplemental Site Investigation: Assessment and Remedial Investigation of Hydrocarbon-Affected Soil and Ground Water. The report concluded that adsorbed-phase hydrocarbons apparently originated from elbow junctions of the former product lines south of the western dispenser island and north of the former fuel tank cavity and possibly from the former fuel tanks. The migration of hydrocarbons in the vadose zone appears to have been controlled by lenses of coarser sediments within silty clays. The extent of dissolved-phase hydrocarbons in either the upper or lower aquifers has not been defined, however, liquid-phase hydrocarbons appear to be limited to the vicinity of MW-2.

## APPENDIX B

ALTON GEOSCIENCE GENERAL FIELD PROCEDURES FOR MONITORING WELL SAMPLING AND FIELD SURVEY FORMS

# ALTON GEOSCIENCE GENERAL FIELD PROCEDURES FOR MONITORING WELL SAMPLING

Monitoring wells were inspected for the presence of free product using an electronic interface probe prior to purging. Before sampling, wells were purged of 3 to 4 casing volumes of water or until pH, temperature, and electroconductivity stabilized. Ground water samples were collected by lowering a 2-inch-diameter bottom-fill disposable polyethylene bailer below the air/water interface in the well. The samples were carefully transferred from the bailer to zero-headspace 40-milliliter and 1-liter glass containers fitted with Teflon-sealed caps. 40-milliliter samples were inverted to ensure entrapped air was not present. Each sample was labeled with sample number, well number, date, and sampler's initials, and remained on ice prior to and during transport to a California-certified laboratory for analysis. The samples were handled in accordance with proper chain of custody documentation. The purged water was pumped into barrels prior to disposal or recycling at an appropriate waste disposal facility.

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# ALTON GEOSCIENCE, INC. Water Sampling Field Sur. Jy

WELL & MW-& PROJECTS 30-0065-051	OCATION_Pleasanton_	DATE 7/31/92
DECONTAMINATION METHOD: TRIPLE RINS	AMPLING METHOD: BAILER X	PUKP
DECONTAMINATION METHOD: TRIPLE RIN	SE W/TSF AND DEIGNIED WA STEAM CLEAN	TER

DEPTH TO WATER 43.05ft

TOTAL DEPTH 50.64 ft

HT. WATER COL 7.59ft

CONVERSION diam gal/ft-							
2 in	X0.16						
3 18	X0.36 X0.65						
6 10	21.44						

Volume of Water Column 4.93 gal Volumes to Purge x 4 Volume to Purge 19.72 gal

## CHEMICAL DATA:

T (F)	sc/unhos	рĦ	Time	Comments	Volume (gal)
76.0	.95	7.59	1253	Grey, silt	4
753	.00	8.10	1257		8
72.8	.93	7.19	1300		12
72.3	,93	7.07	1305		16
72.0	.94	7.05	1310	<del>-</del>	19.75
					<u> </u>
					ļ
, , , , , , , , , , , , , , , , , , ,	Punge	250-	1310	ACTUAL VOLUME PURGED	19:957gal
		\alpha\alpha\	, - '		

COMMENTS:

# ALTON GEOSCIENCE, INC. Water Sampling Field Survey

WELL & MW-+ PROJECTS 30-0065-05	EOCATION Pleasanton	DATE 7/3//92
BAMPLING TEAM DECONTAMINATION HETHOD: TRIPLE R	SAMPLING METHOD: BAILER X	PUHP
DECONTAMINATION HETHOD: TRIPLE R	INSE W/TSF AND DEIGHISED WAT STEAM CLEAN	ER <u>X</u>

MRTT (	DAT	NT
DEPTH		WATERA
DELLA	10	MVIDY

43.07et TOTAL DEPTH 48.50ft HT. WATER COLS.43ft

CONVERSION -diam gal/ft-							
2 10	10.16						
3 in	20.36						
d in	20.65						
6 in	X1.44						

Volume of Water Column 3.53 gal 1\_4 vol Volumes to Purge Total Volume to Purge 14.12 gal

## CHEMICAL DATA:

T (F)	SC/unhos	рĦ	Time	Comments	Volume (gal)
81.5	1.25	9,20	1325	Grey, Silt	2.25
74.2	1.08	7.54	1327		4.50
73.4	1.11	7.48	(332		6.75
72.8	1.07	7.37	1336		9.00
72.3	1.08	7.28	1340	$\bigvee$	11.25
Pung	0 1221	-134	O	ACTUAL VOLUME PURGED	1425/901
Samp	e 1221 le 135	5			<del></del>

COMMENTS:

# ALTON GEOSCIENCE, INC Water Sampling Field Survey

WELL & MW-6 PROJECTS 30-0065-05 LOCATION Presenton	DATE 7/31/12
SAMPLING TEAM SAMPLING METHOD: BAILER X DECONTAMINATION METHOD: TRIPLE RINSE W/TSP AND DEIGHISED WA	PUICP
DECONTAMINATION METHOD: TRIPLE RINSE W/TSF AND DEIGNISED W/ STEAM CLEAN	TER A

DEPTH TO WATER 43.6 ft

TOTAL DEPTH 54.0 ft

HT. WATER COL 10.46 ft

CONVERSION diam gal/ft-							
2 in 3 in	X0.16 X0.36						
	10.65						
6 in	x1.44						

Volume of Water Column (2.80 gal Volumes to Purge 27.20 gal

## CHEMICAL DATA:

T (F)	sc/unhos	рĦ	Time	Comments	Volume (gal)
69.7	1.06	8.56	1110	Gru, Silt	5
67.3	. 93	8.38	1126	V	10
66.9	,92	8.34	1128	L+ Grey	15
66.4	, 89	8.34	1136	/ .	20
65.6	. 9/	3.38	114_3	1	25
Pi	uga 1100	-1143		ACTUAL VOLUME PURGED	27,35/901

£ . . .

Sample 1153

COMMENTS:

# ALTON GEOSCIENCE, INC Water Sampling Field Survey

WELL # MW-9 PROJECT# 30-0065-05	LOCATION Pleasanton	DATE 7/31/92
HEDD &	•	/ /
BAMPLING TEAM / DECONTAMINATION HETHODI TRIPLE F	SAMPLING METHOD: BAILER X	PUICP
DECONTAMINATION HETHODI TRIPLE P	RINSE W/TSF AND DEIGHISED WAT STEAM CLEAN	ER <u>X</u>

WELL DATA:

DEPTH TO WATER 12.04 ft TOTAL DEPTH 28.65 ft

HT. WATER COLIEGE

CONVERSION diam gal/ft							
(I in	10.16						
3 in 4 in	X0.36 X0.65						
6 in	X1.44						

Volume of Water Column 2.66 gal

Volumes to Purge X 4 Vol

Total Volume to Purge 10.64 gal

## CHEMICAL DATA

T (F)	SC/unhos	₽Ē	Time	Comments	Volume (gal)
75.7	15	8.25	1014	Lt. Brown, Silt	2
73.8	1.14	7.95	1118		4
72.3	1.12	7.80	1122		6
72.2	1.13	7.71	1124		8
72.0	1.12	7.67	1127	<u> </u>	10
Pin	12 1010	-1027	,	ACTUAL VOLUME PURGED	10.25/90

Sample 1039

CONGENTS:

## ALTON GEOSCIENCE, INC Water Sampling Field Survey

BAMPLING TEAM Lang SAMPLING METHOD: BAILER Y PUMP  DECONTAMINATION METHOD: TRIPLE RINSE W/TSF AND DEIONISED WATER X  STEAM CLEAN									
CONVERSION OF TOTAL DEPTH 54.40ft  HT. WATER COL 7.04ft  CONVERSION OF THE SAME OF THE SAM				Volumes to Purge	colume of Water Column 458 g. Columns to Purge x 4 v. Cotal Volume to Purge 1832 g.				
T (F)	SC/ushos	рĦ	Time	Comments	Volume (gal)				
73.7	1.03	9.20	1230	Brewn, Silt	3				
70.2	95	9.39	1248		6				
71.1	. 93	7.57	1402		9				
70.4	.92	7.48	1404		12				
	1	1 - 1 - 1	11 60	. 1)					
69.9	.93	1.43	1408		/5				

Jamps 1155-1215/1215-124 ACTUAL VOLUME PURGED 1850/901
Sample 1425
CONSTENTS: Well went dry after failing about 8 gd. Let
recharge
fund procee tried to repair 1155-1215

## APPENDIX C

ANALYTICAL METHODS, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORD

## ANALYTICAL METHODS, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORD

This appendix includes copies of the official laboratory reports and chain of custody record for soil and ground water samples selected for laboratory analysis.

Laboratory analyses were performed by Sequoia Analytical, a California-certified laboratory (California Certification No. 1271).

Chemical analyses of soil and ground water samples were performed using standard test methods of the United States Environmental Protection Agency (EPA) and the California Department of Health Services (Cal-DHS).

Chain of custody protocol was followed for all samples. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to actual analysis.





AUG 1 > 1992

Alton Geoscience

5870 Stoneridge Drive, Suite 6 Pleasanton, CA 94588

Attention: Dennis Masionkowski

Reporting

Client Project ID: Sample Matrix: Mobil #04-H6J/30-0065-05

Sample

Water

EPA 5030/8015/8020

Analysis Method: First Sample #:

Sample

208-0018

Sample

Sampled:

Jul 31, 1992

Received:

Sample

Sample

Aug 3, 1992

Reported: Aug 10, 1992

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	⊔mit μg/L	1.D. 208-0018 MW-8	1.D. 208-0019 MW-6	I.D. 208-0020 MW-1	I.D. 208-0021 MW-4	I.D. 208-0022 MW-9	
Purgeable Hydrocarbons	50	270	9400	N.D.	3800	9300	
Benzene	0.5	N.D.	1500	N.D.	320	1800	
Toluene	0.5	N.D.	1500	N.D.	340	1900	
Ethyl Benzene	0.5	N.D.	370	N.D.	120	620	
Total Xylenes	Total Xylenes 0.5		1100	N.D.	360	940	
Chromatogram Pat	tern:	Non Gasoline Mixture (>C10)	Gasoline		Gasolin <b>e</b>	Gasolin <del>e</del>	
Quality Control Da	nta						<del></del> 1
Report Limit Multip	lication Factor:	1.0	20	1.0	10	10	
Date Analyzed:		8/5/92	8/6/92	8/5/92	8/5/92	8/5/92	
Instrument Identific	eation:	HP-2	HP-4	HP-2	HP-2	HP-2	
Surrogate Recover (QC Limits = 70-13		100	94	105	119	120	

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager

2080018.ALT <1>



Alton Geoscience

Client Project (D: Mobil #04-H6J/ 30-0065-05

5870 Stoneridge Drive, Suite 6

Pleasanton, CA 94588

Attention: Dennis Masionkowski

QC Sample Group: 2080018-22

Reported: Aug 10, 1992

## **QUALITY CONTROL DATA REPORT**

ANALYTE			Ethyl-	
	Benzene	Toluene	Benzene	Xylenes
	EPA	EPA	EPA	EPA
Method:	8015/8020	8015/8020	8015/8020	8015/8020
Analyst:	A.P.	A.P.	A.P.	AP.
Reporting Units:	κΕ. μg/L	μg/L	μg/L	μg/L
	μg/ς Aug 5, 1992	μ9/- Aug 5, 1992	Aug 5, 1992	Aug 5, 1992
Date Analyzed:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
QC Sample #:	Maurix Siank	Matrix Brank	MINTELLY CHANK	HIGHIX CIGH
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc.				
Added:	20	20	20	60
Conc. Matrix				
Spike:	20	21	22	67
Matrix Spike				
% Recovery:	100	105	110	112
Conc. Matrix				
Spike Dup.:	20	20	20	64
•				
Matrix Spike				
Duplicate	400	100	100	107
% Recovery:	100	100	100	101
Relative				
% Difference:	0.0	4.9	9.5	4.6

**SEQUOIA ANALYTICAL** 

Scott A. Chieffo Project Manager

% Recovery:	Conc. of M.S Conc. of Sample		
_	Spike Conc. Added		
Relative % Difference:	Conc. of M.S Conc. of M.S.D.	x 100	
_	(Conc. of M.S. + Conc. of M.S.D.) / 2		2080018.ALT <2>

# **Mobil Chain of Custody**



Redwood City:
Concord:
Sacramento:

(415) 364-9600 (510) 686-9600 (916) 921-9600

Consulting Firm Name: Alton GeoScience				Site SS #:	04-H	6J		Phase of Work:	
Address: 58 70 Stoneridge DR #6					Mobil Site Add	ress: 1024	Pleasant	A. Emrg. Response	
City: Pleaso		1,	•	Code: 94588			,		☐ B. Site Assessment
•					1				C. Remediation
Telephone: 5	10) 73	9-8130	FAX#:	134-842c	Consultant Pro	oject#: <u></u> ろ(	0-0065-	05	☐ D. Monitoring
Project Contact: D	onnis Madente	wski Sample	ed by: Lam	Bremenida	Sequoia's Wo	rk Order Rele	ease #:		☐ E. OGC/Claims
Turnaround Time	: DXStandard TA	-	orking Days)	,		1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<del></del>	Requested	72
Client Sample I.D.	Date/Time Sampled	Matrix Description		Sequoia's Sample #	24 24 06 X	1010 100 100 100 100 100 100 100 100 10			Comments
1. Mw-8	7/31/92/1039	W	2 HCL Pru. voso			25	2800	018/	AB 1
2. MW-6	[	<b>.</b>						019/	fB
	7/31/12/1319	1 1						120/	13
4. MW-4	1 ' ' ' ' / / / .	L 1						021/	+B
5. MW-9	7/31/12/1425	V					V	0221	4B
6.	, , ,								
7.			1						
8.									
9.									
10.									
Relinquished By:	Jany Bue	me y	Date: 8 3 c	12 Time: 142°	Received By	. Asi	an.	Date: 5/2/2	2 Time: 2:30 Pm
Relinquished By:	<u> </u>		Date:	Time:	Received By	<b>:</b>		Date:	Time:
Relinquished By:			Date:	Time:	Received By	<u>,                                    </u>		Date:	Time: