P.O. Box 8117 Berkeley, California 94707 Phone: (510) 525-3750 Fax: (510) 525-9058

November 17, 1995

Ms. Juliet Shin Senior Hazardous Materials Specialist Alameda County Health Care Services Agency Hazardous Materials Division 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502-6577

RE: Soil Sampling, Monitoring Well Installation and Initial Groundwater Sampling at 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road, Albany California).

Dear Ms. Shin;

Enclosed please find one copy of the report resulting from implementation of the workplan dated August 15, 1995 for the installation of one monitoring well and for the initial (first quarterly) sampling of two of the monitoring wells at the above described location.

Sincerely,

John W. Piggott

President

cc: Gary Lowe



SOIL SAMPLING MONITORING WELL INSTALLATION AND INITIAL GROUNDWATER SAMPLING

1081-1085 EASTSHORE HIGHWAY (FORMERLY 1077 EASTSHORE FRONTAGE ROAD) ALBANY, CALIFORNIA

NOVEMBER 17, 1995

H20GEOL A GROUNDWATER CONSULTANCY

CONTENTS

1.0	INTRODUCTION	. 1
2.0	FIELD OPERATIONS AND INVESTIGATIVE METHODS	. 2 . 2 . 3 . 3
3.0	RESULTS AND DISCUSSION	. 4 . 5 . 5
4.0	CONCLUSIONS AND RECOMMENDATIONS	. 7
5.0	PROFESSIONAL CERTIFICATION	. 8
LIST	OF FIGURES SITE LOCATION MAP	
2	POTENTIOMETRIC SURFACE MAP OCTOBER 17, 1995	
LIST	OF ATTACHMENTS	
A	Permits/Forms	
В	Borehole Lithologic Logs	
С	Soil Sample Analytical Results	
D	Log of Well Sampling Activities	Ç
E	Groundwater Sample Analytical Results	



P.D.Box 2165 - Livermore, California 94551 - 510-373-9211

SOIL SAMPLING
MONITORING WELL INSTALLATION
AND
INITIAL GROUNDWATER SAMPLING
AT
1081-1085 EASTSHORE HIGHWAY
(FORMERLY 1077 EASTSHORE FRONTAGE ROAD)

ALBANY, CALIFORNIA

1.0 INTRODUCTION

The property at 1077 Eastshore Highway (aka Eastshore Frontage Road) in Albany, California was identified as an underground tank leak site by the Alameda County Health Care Services Agency, Department of Environmental Health, Environmental Protection Division (ACHCSA). The property is also known by Alameda County Assessor's Parcel Number 66-2686-5-18. The postal addresses for the property are currently recognized as 1073, 1077, 1081, and 1085 Eastshore Highway. The location of 1073-1085 Eastshore Highway property is shown in Figure 1. The six former underground storage tanks were removed in May of 1992 from the paved area south of the 1081 and west of 1085 addresses.

A workplan for the installation of an additional monitoring well was prepared and was submitted to ACHCSA on August 15, 1995. The ACHCSA approved the workplan in their letter was dated August 18, 1995. The property owner retained H_2OGEOL to conduct this investigation.

1.1 PRESENT INVESTIGATION

The purpose of this investigation is twofold: to determine, to the extent possible, the groundwater flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy will remain unknown) in the Artificial Fill, Bay Mud, and underlying Merritt Sand and to ascertain the potential presence of underground storage tank derived petrochemicals. The chemicals analyzed and reported are: Total Extractable Petroleum Hydrocarbons as diesel (TPH-D) and Total Petroleum Hydrocarbons as Gasoline (TPH-G), along with the associated aromatic hydrocarbons benzene (B), toluene (T), ethylbenzene (E), and total xylene isomers (X), which are collectively referred to as BTEX.

The present investigation focused on the area in the vicinity of the gasoline tank (Tank Cluster #2) remedial excavation and consisted of drilling one soil sampling borehole to a depth of about seven feet and collecting a soil sample from immediately above the first encountered groundwater; drilling deeper at the same borehole and installation of an additional monitoring well, designated MW-4, to a depth of about fifteen; and collecting and analyzing groundwater samples from the new monitoring well and previously existing downgradient monitoring well "L".

A ZONE 7 Water Agency (also known as Zone 7 Alameda County Flood Control and Water Conservation District) Drilling Permit Application was filed on August 22, 1995 and issued on September 14, 1995. This permit was issued by telefax (Attachment A); the original permit was never received. Upon completion of the well construction, a California Department of Water Resources (DWR) form 188 was filled out for the new well and submitted to Zone 7 as required by the permit (the original DWR form 188 was also submitted to ZONE 7 as stipulated in previous permit cover letters. DWR forms 188 are also included in Attachment A.

2.0 FIELD OPERATIONS AND INVESTIGATIVE METHODS

Field investigations consisted of the installation of one borehole. A 4-inch diameter, 5.6 foot deep borehole was hand augered on October 11, 1995. The 5.6 foot deep borehole was dry and did not encounter groundwater on October 11, 1995, it was therefore allowed to sit open, though covered to avoid a safety hazard, overnight to ensure compliance with the last sentence of paragraph one of the ACHCSA August 18, 1995 workplan approval letter ("If at the time of drilling, the water table is noted to be shallower than 5-feet below ground surface, the proposed screen interval should be adjusted accordingly."). The 5.6 foot deep borehole was dry 07:30 on the morning of October 12, 1995.

The borehole was deepened to about fifteen feet, reamed to 6.25-inch diameter, and completed into monitoring well MW-4 on October 12, 1995.

2.1 Lithologic Logging

During augering of the borehole, soil characteristics were logged in the field by a geologist. Distinguishing features such as soil composition, color, texture, and unusual odors were noted. The soil characteristics were logged in the field according to the Unified Soil Classification System.

Logging began during the hand augering of the 4-inch soil sampling borehole. Logging continued when the monitoring well installation borehole was extended to final depth (14.7 feet). A borehole lithologic log with a well completion diagram is included in Attachment B.

2.2 Soil Sampling

The soil sampling borehole was drilled with 4-inch AMS soil augers. As indicated above, the soil sampling borehole was first augered to a depth of 5.6 feet and allowed to remain open overnight. Following commencement of augering the next morning, the hand augered borehole was advanced until an increase in moisture content indicated that the water table was being approached. First encountered water was at 6.85 ± 0.05 feet.

The soil samples were collected from the bottom of the augered boreholes using an AMS slide hammer to drive a core sampler. A 6-inch long brass soil sample retaining cylinder was housed within the core sampler. When the sampler was extracted from the borehole and disassembled, the brass cylinder was removed. The ends of the brass cylinder were covered with aluminum foil and a tight fitting "cap plug" was affixed to each end so as to ensure air tightness. The sealed tube was labeled and then placed onto ice (water frozen in a 2-liter plastic bottle) in an ice chest while awaiting transport to Superior Analytical Laboratory, Inc., of Martinez, California, a state certified laboratory, for analysis following proper chain of custody documentation (Attachment C along with the laboratory analytical report).

2.3 Monitoring Well Installation

Well construction commenced after the hand augered borehole was reamed to is final diameter. A ten foot section of flush threaded 2-inch inside diameter schedule 40 PVC well casing and slotted screen was installed into the monitoring well borehole. The well was constructed with screen factory slotted to 0.020-inch. Sand (RMC Lonestar, No.3) was poured into the annulus from the ground surface until the sand was 0.55 foot above the screen. After the required amount of sand was added to the annulus, a 0.3 foot bentonite chip seal was placed above the sand pack. The bentonite chips were hydrated with potable water poured from the surface. A neat cement seal was added to prevent infiltration of the sand pack from surface runoff. The well was secured with a cap and traffic rated box set onto concrete and sloped to drain away from the lid. The monitoring well was constructed as follows:

WELL CONSTRUCTION DETAILS

Well Number	Borehole Diameter (inches)	Casing/ Screen Diameter (inches)	Total Borehole Depth (feet)	Total Well Depth (feet)	Screened Interval (feet)
MW-4	6.25	2	14.7	14.21	4.7-13.7

The monitoring well was developed on October 12, 1995 by the surge and pump technique during installation of the sand filterpack. Well development continued until the turbidity was lowered to a point where the amount of sediment in the produced water would not interfere with the laboratory analytical procedures. Development occurred prior to the placement of the bentonite and the pouring of the neat cement grout seal. This sequence was followed to ensure that the sandpack was settled to its final depth. Since development occurred prior to grouting, there could be no effect on the seal by well development (the usual reason for waiting from 48 to 72 hours between installation and development of monitoring wells).

The location of monitoring well MW-4 is shown on Figure 2 along with previously existing monitoring wells MW-K, MW-L, and MW-N

2.4 Monitoring Well Purging and Sampling

The two monitoring wells (MW-4 and MW-L) to be sampled were purged on October 17, 1995 by pumping with an "ES-60" submersible pump marketed for monitoring well purging by Enviro-Tech Services Co. of Martinez, California. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac™ Conductivity Temperature pH Tester. Well purging activities and the field measured water quality parameters are documented in Attachment D. For each well, purging continued until specific conductance stabilized to +/- 5% on consecutive readings.

Groundwater samples for TPH-D (nonvolatile) analysis were collected in one liter amber bottles directly from the end of the pump discharge tubing prior to removal from the well. The purge pump was slowly removed from each well while running to allow a sweeping of the wellbore, preventing significant surging of the wellbore and drainage of the discharge tubing into the well. Groundwater samples for TPH-G plus BTEX analysis were collected using a precleaned TeflonTM bailer suspended from a new nylon twine line, and emptied through a precleaned TeflonTM pepcock type bottom emptying device into 40-mL glass vials with TeflonTM septum lids, in duplicate.

Groundwater sample bottles were labeled and placed in an ice chest with 2 Liter plastic bottles containing ice. Chain-of-Custody forms were filled out and were delivered with the ice chest to Superior Analytical Laboratory, Inc. of Martinez, California, a state certified laboratory. Laboratory reports and Chain-of-Custody documentation are contained in Attachment E.

3.0 RESULTS AND DISCUSSION

3.1 Geology and Borehole Lithology

Below the surface concrete and underlying asphalt surface, and their respective baserock layers, the monitoring well borehole encountered clayey sand/sandy clay fill with fragments of bricks, glass bottles, porcelain jars, cast iron, and other decay resistant

trash to a depth of 6.85 feet. At this depth groundwater was first encountered in a decayed vegetation mat. An oil-like hydrocarbon odor (definitely not a gasoline or aged gasoline-like odor) was noted at this depth. The single soil sample was collected from about the 6.5 to 7 foot depth.

Below the decayed vegetation mat, a dark olive gray clay was next encountered, followed by a greenish gray sandy clay and clay to a depth of about 13.5 feet. This was underlain by a roughly one foot thick black silty clay with abundant root hairs followed in depth by a black very stiff clay. The borehole was terminated in this black very stiff clay, as logs of nearby boreholes suggested that the Merritt Sand would be encountered immediately below the black very stiff clay.

3.2 Soil Analytical Results

The soil sample was submitted to Superior Analytical Laboratory, Inc. for analysis of TPH-D by U.S. EPA Method 3550/8015M; for TPH-G by U.S. EPA Method 5030/8015M, and for BTEX by U.S. EPA Method 8020. The laboratory report and Chain-of-Custody documentation is contained in Attachment C.

The soil sample analytical results were reported by the laboratory as containing:

TPH-D	18	mg/Kg
TPH-G	<1	mg/Kg
Benzene	<5	μg/Kg
Toluene	<5	μg/Kg
Ethylbenzene	<5	μg/Kg
Total Xylenes	<5	μg/Kg

Note:

1.0 mg/Kg = 1,000 μ g/Kg; also 1 mg/Kg is about 1 part per million (1 ppm) and 1.0 μ g/Kg is about 1 part per billion (1 ppb).

3.3 Groundwater Flow Direction and Gradient

The regional shallow groundwater flow beneath the filled Bay margins in the Albany/Berkeley area is toward the channelized portions of natural drainages and the nearby waters of San Francisco Bay. Local perturbations caused by recharge/discharge form/to cultural features results in a complex pattern of shallow groundwater flow directions.

Depth to water in four monitoring wells was measured to +/- 0.01 feet using a Solinst Model 101 water level meter on October 17, 1995. The depth to water was converted to potentiometric surface elevation by subtracting the measured depths to water from the casing top elevation. This information is presented below.

WELL AND GROUNDWATER ELEVATIONS OCTOBER 17, 1995

Well Number	Top of Casing Elevation (feet, msl)	Time of Depth measurement	Depth to Water (feet)	Groundwater Surface Elevation (feet, msl)
MW-4	8.58	09:49	6.57	2.01
MW-K	8.43	10:01	5.74	2.69
MW-L	7.64	09:53	5.78	1.86
MW-N	8.96	09:56	6.02	2.94

The approximate average groundwater flow direction for the set of largest possible triangles with a well at each apex is S 16.4° W at a gradient of 0.00530. Figure 2 is a potentiometric surface map showing well locations and groundwater surface contours as measured on October 17, 1995. Groundwater flow is toward Codornices Creek, the channel of which is at about the elevation of the bottom of the Artificial Fill.

3.4 Groundwater Analytical Results

The groundwater surface at monitoring wells MW-4 and MW-L were checked for free product, observation of sheen, and odor. No free product or sheen was found at MW-L. Groundwater from monitoring well MW-4 possessed several 0.5 to 1 millimeter macroglobules of floating hydrocarbons.

Groundwater samples were submitted to Superior Analytical Laboratory, Inc. for analysis of TPH-D by U.S. EPA Method 3510/8015M; for TPH-G by U.S. EPA Method 5030/8015M and for BTEX by method 602/8020. The laboratory report and Chain-of-Custody documentation is contained in Attachment E.

A comparison is made with maximum contaminant levels (MCLs) as listed in: Marshack, Jon B., D. Env., May, 1993, A Compilation of Water Quality Goals, California Regional Water Quality Control Board, Central Valley Region.

Groundwater samples from both monitoring wells was reported as containing TPH-Diesel: 440 μ g/L at MW-4 and 180 μ g/L at MW-L.

The gasoline fuel constituent (TPH-G+BTEX) analyses were reported as N.D. for MW-4. The groundwater sample from MW-L contained 1.3 μ g/L benzene and trace ethylbenzene (0.6 μ g/L) and total xylene isomers (0.5 μ g/L). Fuel hydrocarbon constituents are summarized as follows, with all concentrations are expressed in micrograms per liter (μ g/L):

Well	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-4	440	<50	<0.5	<0.5	<0.5	<0.5
MW-L	180	<50	1.3	<0.5	0.6	0.5
Califor	nia*Primary	y MCL's				
	na	na	1	na	680	1,750
US E.P.	A.*Primary	MCL's				
	na	na	5	1,000	700	10,000

The only fuel hydrocarbon exceeding an identified published regulatory threshold is benzene in groundwater from monitoring well MW-L, and then only marginally (1.3 compared to 1.0).

4.0 CONCLUSIONS AND RECOMMENDATIONS

The soil sample collected near the groundwater interface from the borehole for MW-4 in the vicinity of the gasoline tank (Tank Cluster #2) remedial excavations was found not to contain gasoline derived petroleum hydrocarbons. Diesel range hydrocarbon compounds were found at 18 mg/Kg, well below a concentrations of concern (> 100 ppm).

MW-4 is downgradient, and immediately adjacent to the gasoline tank remedial excavation. Groundwater samples from this monitoring well was found not to contain detectable concentrations of gasoline derived petroleum hydrocarbons. The groundwater sample from MW-4 was found to contain 440 $\mu \rm g/L$ Diesel range hydrocarbon compounds.

MW-L is downgradient, and immediately adjacent to the diesel tank cluster remedial excavation. Benzene at a concentration minusculely above the MCL, as well as barely detectable concentrations of ethylbenzene and total xylene isomers were reported.

As specified in the ACHCSA August 18, 1995 workplan approval letter, TPH-D, TPH-G and the aromatic hydrocarbons (BTEX) should be monitored quarterly. The Second consecutive quarter will occur during the week of January 08, 1996; the Third during the week of April 08, 1996; and the Fourth during the week of July 08, 1996. unforeseen circumstances may alter this schedule slightly.

5.0 PROFESSIONAL CERTIFICATION

ARY D. LOWE

CHARLES Sales sens

This report on an additional borehole/monitoring well installation at the property at 1081-1085 Eastshore Highway in Albany, California has been prepared by H2OGEOL A GroundWater Consultancy, by and under the professional supervision of the sole proprietor. The findings, recommendations, specifications, or professional opinions are presented after being investigated and prepared in accordance with generally accepted professional environmental hydrogeologic and groundwater monitoring practice. This report incorporates information developed by Aqua Resources, Inc., Engineering-Science, ENSR Consulting and Engineering, and Ron Archer, civil Engineer, Inc. Incorporation of information developed and or reported by others does not necessarily mean that the undersigned accepts that information as valid. There is no other warranty, either expressed or implied.

This report was prepared by:

Frage to

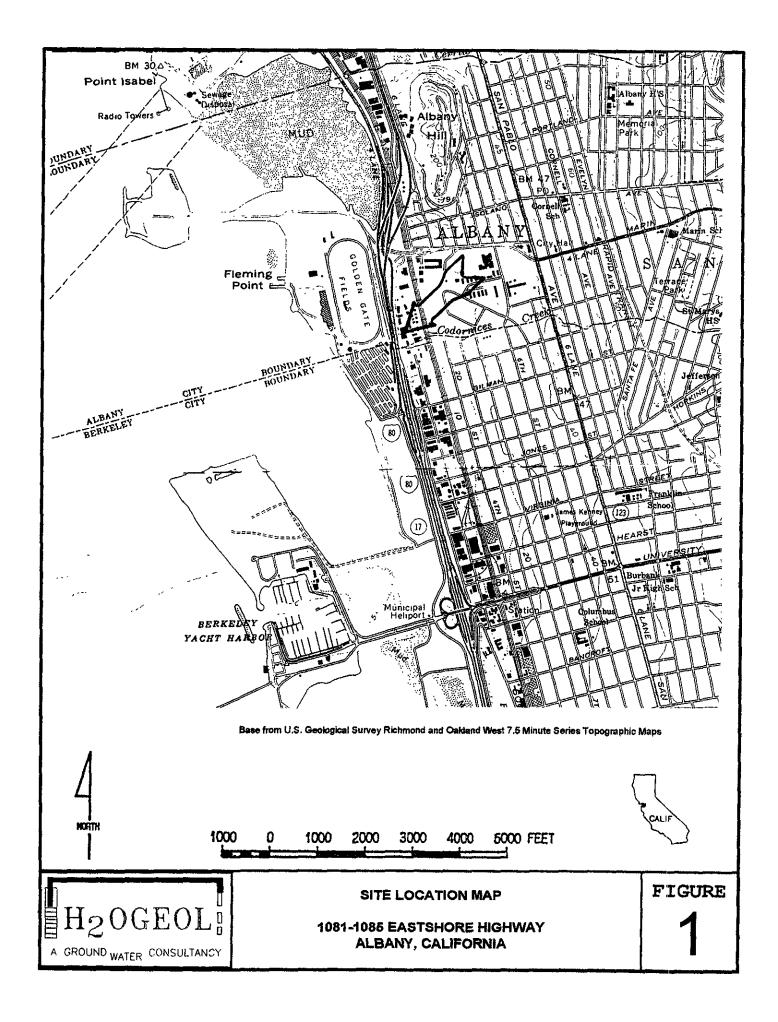
Gary D. Lowe, R.G., C.E.G., C.H.
Principal, Hydrogeologist
H₂OGEOL A GroundWater Consultancy

GARY D. LOWE

No. 127

CEARRIED

HYDROGEOLOGIST



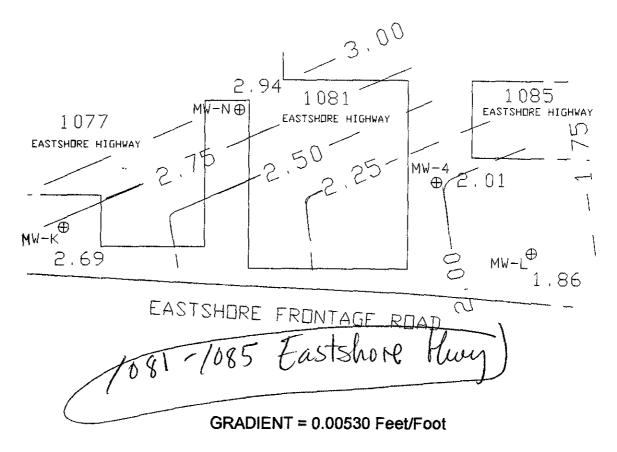


MW-NMonitoring Well name/Number

 \oplus Monitoring Well Location

Groundwater Surface Elevation 2,94 at monitoring well

3.00 Potentiometric Surface Contour and Contour Elevation



DIRECTION OF GRADIENT = S 16.4°W

(Approximate groundwater flow direction, uncorrected for hydraulic conductivity anisotropy).



POTENTIOMETRIC SURFACE MAP **OCTOBER 17, 1995** 1077-1085 EASTSHORE HIGHWAY ALBANY, CALIFORNIA

FIGURE



P.O.Box 2165 . Livermore, California 94551 . 510-373-9211

ATTACHMENT A

PERMITS/FORMS

ZONE 7 WATER AGENCY
DRILLING PERMIT APPLICATION/
PERMIT No. 95590

AND

CALIFORNIA DEPARTMENT OF WATER RESOURCES FORM 188 No. 158547 FOR MW-4



P.O.Box 2165 - Livermore California 94551 - 510-373-9211

ATTACHMENT B

BOREHOLE LITHOLOGIC LOGS

NEW WELL MW-4
AND
PREVIOUSLY EXISTENG WELLS
MW-K
MW-L
MW-N

H20GEOL!
CROUND CONSULTANCY

BOREHOLE LITHOLOGIC LOG

PAY CONTON	BONEHOLE LITHOLOGIC LOG
H20GEOL#	
A GROUND WATER CONSULTANCY	BOREHOLE No. MW-4 Sheet 1 of 1
Project No.: Date: 10/11-12/95	Drilling Co. ASE Drilling Drill Model Iwan Auger
Client: Wilanco, Inc.	Drilling Method - Hand Operation Borehole Diameter 6,25-in
Location: 1077 Eastshore Frontage Road	Ground Surface Elevation 11.1 Datum: ground surface
Albany, California	Borehole MW-4 was completed as a monitoring well MW-4
CDI Dellara PCV/GDI	
Logged by: GDL Driller: RCV/GDL	Water Level Dry, > 5.6 Ft. 6.67 Ft.
or and state of the state of th	Time 7:30 9:49
Sampling Blowcounts Blowcounts PID/FID HNu/DVA reading Depth test Sample Sample Soat Sample Number Graphic Soit Symbol USCS Soit Symbol	Date 10/12/95 10/17/96
<u> </u>	
	Concrete West completed with 12-inch traffic rated type cover. Baserock - sand, crushed rock, broken/crushed brick and asphalt Distinct horizontal asphalt layer .2 feet thick Dark olive 5Y 3/2 silty clay with gravel & brick. Dark olive 5Y 3/2 clayey sand, dry Reddish brown 5YR 4/3 clayey sand. glass bottle bottoms at 3.2, & 3.8 Ft. Bentonite Seal Dark olive 5Y 3/2 / Reddish brown 5YR 4/3 gravelly, sandy clay with cast iron, brick and porcelain fragments at. 5.2 feet.
 	Distinct horizontal asphalt layer .2 feet thick
2	Dark olive 5Y 3/2 silty clay with gravel & brick.
2	
3 Samuel Full	Dark olive 5Y 3/2 clayey sand, dry
	Neat Cement Grout 5
J4	at 3.2, & 3.8 Ft. Bernonite Seal
Clay	at 3.2, & 3.6 Ft.
5-1-5-Fill	Dark olive 5Y 3/2 / Reddish brown 5YR 4/3 gravelly, sandy clay with
	cast iron, brick and porcelain fragments at. 5.2 feet.
7	First Encountered Water at 6.85 Feet. Hydrocarbon odor to water.
CL CL	Dark olive gray 5Y 3/2 clay with abundant vegetation ramains
 	Beginning at 8.2 feet, increasing sand content with depth. to 9.3 feet
CL CL	
9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Beginning at 8.2 feet, increasing sand content with depth. to 9.3 feet Greenish gray 5GY 5/1 sandy clay with brown root hairs Greenish gray 5GY 5/1 clay Greenish gray 5GY 5/1 stiff clay LONESTAR No 3 Sand
10-1	Eg =
	Greenish gray 5GY 5/1 clay
	Greenish gray 5GY 5/1 stiff clay LONESTAR No 3 Sand
CL CL	
12	
13	
	Plack 7 GVD 2/6 silts along with abundant you statile formation
14-1-1-10 CL	Black 7.5YR 2/6 silty clay with abundant vegatation fragments.
15	Black 7.5YR 2/6 very stiff clay. Total Well Depth ≈ 14 21 Feet.
Total Depth 14.7	
16 (below grade)	
 	
18 + +	
19	
20-1	
 	
 21 	
22-	
23-	
 	

JUA RESOURCES, INC.

OBSERVATION WELL	INSTALLATION REPORT.	1 100
,	Observation Well No	
Sierro Diesel	Location Bry beless	``
	Carver Dote 12. Dec. 85 Time 12:30 AH 1919	
B = 140 00000	W.C.O. TO EAST. Frager's morning	900 ·
installation artificial pellety	added to plun lostoni 1 ft	51
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ter nach pibled inside.	
Ext. After ouners mention	ed, provit seal placed.	
	AND OBSERVATION WELL	
LOG OF BORING	OBSERVATION WELL	
BODING	1	
, BORING	Type of Observation Well	
ğ	Ground Elev. Casing Top, Elev.	
Description	Vented Cop	•
3 =	1bt	
5" concrete	The state of the s	3.11
	Type of Pipe 2" PVC	
18" gravel	Type of Pipo 22 - CA 40	VC
4" sand	{	ound '."
- I Same,	Type of Bockfill Around Riser_D, N. A.	Juna .
e - co" (Con	Riser_D/.	
		-
Bay much to 17	1 45 1 1	
	Type of Seal Material.	31
_	Lz'	
	L ₅ . — L ₃	• (
	13'17	•
•	Size of Openings 0.02"	1.02"
	Diameter of Casing	1
	Tip_Z	
	Type of Filter Moterial	teriol—
	180457	
	Diameter of Boring	
	· 24' to 23'	<u>uite</u>
Dentonite alua fromu	· 24 · 60 25	
0 0	2 It measured from	28P
1.) · water level, 6,	4 to mean	
casing top (app	oximate Value	
	Inspected By	

CLIENT <u>William</u>	CLIENT Williams & Lane/SDDA			E NUMBER	N			
LOCATION 1077	LOCATION 1077 Eastshore Hwy., Albany				DATE 6/10/86			
SURFACE ELEVAT	SURFACE ELEVATION 11.43							
· HOLE DIAMETER_	· HOLE DIAMETER 8 Inches			METHOD Ho	llow Stem Auger .			
DRILLER Aqua So	ience Engine	ers	GEOLOGIST	K. Chesi	ck/N. Siler			
		·						
		/ /		GEOLOGIC I	.og			
WELL CONSTRUCTION	DEPTH (Feet)	Descri	iption	 Sample 	Blow Counts per 6" Depth (Stan-1 dard Hammer)			
Bentonite 40 F Seal CL CL (0-4 OL) Monterey Sand Slot (3.5-24ft Sche -40 F CL CL CL -2" I Sche -40 F CL -casi	duled VC	Saturated st clay, solven Saturated gr with fragmen	sand and if fragments y grey clay and minor organic clay it odor iff sandy grey clay its of very clay. Slight green sandy with layers if grey clay andy clay slurry	Split Spoon	2-3-2			

.



P.O.Box 2165 - Livermore California 94551 - 510-373-9211

attachment c

SOIL SAMPLE ANALYTICAL RESULTS

SUPERIOR ANALYTICAL LABORATORY, INC. LABORATORY NUMBER 20293



Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY P.O.BOX 2165 LIVERMORE, CA 94551

Date: October 20, 1995

Attn: GARY D. LOWE

Laboratory Number : 20293

Project Number/Name : 1077

This report has been reviewed and

approved for release.

Senior Chemist Account Manager



HEOGEOL A GROUNDWATER CONSULTANCY Attn: GARY D. LOWE Project 1077 Reported on October 20, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE by EPA SW-846 5030/B015H/8020

by EPA SM-846 5030/8015H/8020 Gamoline Range quantitated as all compounds from C6-C10

Chronology					Labor	ratory Num	ber 20293
Sample ID		Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-4 6.5-7		10/12/95	10/13/95	10/20/95	10/20/95	BJ171.05	01
QC Samples							
QC Batch #	QC Sample ID		Ty	peRef.	Matrix	Extract.	Analyzed
BJ171.05-01	Method Blank		мв		Soil	10/17/95	10/17/95
8J171.05-02	Laboratory Spike		LS		Soil	10/17/95	10/17/95
BJ171.05-03	Laboratory Spike Duplicat	t e	LS	D	Soil	10/17/95	10/17/95
BJ171.05-04	1210-004		MS	20300-0	4 Soil	10/17/95	10/17/95
BJ171.05-05	1210-004		. MS	D 20300-0	4 Soil	10/17/95	10/17/95

Customer Service: (800) 521-6109 • Laboratory: (510) 313-0850 • Facsimile: (510) 229-0916
Post Office Box 2648 • 835 Arnold Drive • Suite #106 • Martinez, California 94553
1555 Burke Street • Suite A • San Francisco, California 94124



H2OGEOL A GROUNDWATER CONSULTANCY

Attn: GARY D. LOWE

Project 1077 Reported on October 20, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE by EPA SW-846 5030/8015M/8020 Gasoline Range quantitated as all compounds from C6-C10

LAB ID Sample ID Matrix Dil.Factor Moisture

20293-01 MW-4 6.5-7 Soil 1.0 -

RESULTS OF ANALYSIS

Compound 20293-01 Conc. RL mg/kg Gasoline Range ND ī ND 0.005 Benzene 0.005 Toluene ND ND 0.005 Ethyl Benzene Xylenes ND 0.005

>> Surrogate Recoveries (%) << Trifluorotoluene (SS) 109



Gasoline Range Petroleum Hydrocarbons and BTXE by EPA SW-846 5030/8015M/8020 Gasoline Range quantitated am all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20293 Method Blank(s)

BJ171.05-01 Conc. RL mg/kg

Gasoline Range	ND	1
Benzene	ND	0.005
Toluens	ИD	0.005
Ethyl Benzene	ИD	0.005
Yulenes	MD	0.005

>> Surrogate Recoveries (%) << Trifluorotoluene (SS) 101



Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015H/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20293

Compound	Samp! conc.		SPK Result	Recovery %	Limits %	RPD
	,	or Soil Hatrix	(mg/kg)	·		
В.Э.	l71.05 02	2 / 03 - Laborat	ory Control Sp	ikes		
Gasoline Range		3.20	4/4	125/125	65-135	۰
Benzene		0.200	0.22/0.22	110/110	65-135	ŏ
Toluene		0.200	0.22/0.22	110/110		٥
Ethyl Benzene		0.200	0.22/0.22	110/110	65-135	ō
Xylenes		0.600	0.66/0,65	110/108		2
>> Surrogate Recoveries (%) <-	•		•			
Trifluorotoluene (SS)			•.	96/98	50-150	
	P	or Soil Matrix	(ma/ka)			
ВЈ	71.05 04	/ 05 - Sample	Spiked: 20300	- 04		
Gasoline Range	ND	3.20	414	100/100		_
Benzene	ND	0.200	4/4	125/125	65-135	0
Toluene	ND	0.200	0.23/0.23	115/115		0
Ethyl Benzene	ND		0.22/0.23	110/115		4
Xylenes	ND ND	0.200	0.22/0.22	110/110		0
	KO	0.600	0.66/0.66	110/110	65-135	D
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				98/101	50-150	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Page 4 of 4



H2OGEOL A GROUNDWATER CONSULTANCY

Attn: GARY D. LOWE

Project 1077

Reported on October 23, 1995

Total Petroleum Hydrocarbons as Diesel by EPA SW-846 Method 8015M

Diesel Range quantitated as all compounds from C10-C25

Chronology					Labo	ratory Nu	ber 20293
Sample ID	:	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-4 6.5-7		10/12/95	10/13/95	10/19/95	10/20/95	BJ191.29	01
QC Samples							
QC Batch #	QC Sample ID		Тур	eRef.	Matrix	Extract.	Analyzed
BJ191.29-01	Method Blank		MB		Soil	10/19/95	10/19/95
BJ191.29-02	Laboratory Spike		LS		Soil	10/19/95	
BJ191.29-03	Laboratory Spike Duplicate	e	LSD		Soil	10/19/95	
BJ191.29-04	MW-4 6.5-7		MS	20293-01		10/19/95	
BJ191.29-05	MW-4 6.5-7		MSD	20293-01		10/19/95	



H2OGEOL A GROUNDWATER CONSULTANCY

Attn: GARY D. LOWE

Project 1077 Reported on October 23, 1995

Dil.Factor

1.0

Total Petroleum Hydrocarbons as Diesel

by EPA SW-846 Method 8015M

Diesel Range quantitated as all compounds from Cl0-C25

LAB ID

Sample ID

Matrix

Moisture

20293-01

MW-4 6.5-7

Soil

RESULTS OF ANALYSIS

Compound

20293-01

Conc. RL

mg/kg

Diesel:

18 1

>> Surrogate Recoveries (%) <<

Tetracosane

Superior **Analytical Laboratory**

Total Petroleum Hydrocarbons as Diesel by EPA SW-846 Method 8015M Diesel Range quantitated as all compounds from C10-C25

Quality Assurance and Control Data

Laboratory Number: 20293 Method Blank(s)

BJ191.29-01 Conc. RL mg/kg

Diesel:

ND

>> Surrogate Recoveries (%) <<

Tetracosane



Total Petroleum Hydrocarbons as Diesel by EPA SW-846 Method 8015M Diesel Range quantitated as all compounds from C10-C25

Quality Assurance and Control Data

Laboratory Number: 20293

Compound		mple nc.	SPK Level	SPK Result	Recovery %	Limits 1	RPD t
	BJ191.29		Soil Matrix 03 - Laborat	(mg/kg) ory Control Sp	ikes		
Diesel:			33	30/30	91/91	50-150	o
>> Surrogate Recoveries Tetracosane	(%) <<				83/87	50-150	
	BJ191,29		Soil Matrix 05 - Sample	(mg/kg) Spiked: 20293	- 01		
Diesel:	18		166/333	167/320	90/91	50-150	1
<pre>>> Surrogate Recoveries (Tetracosane</pre>	*) <<				87/88	50-150	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Page 4 of 4

20293

			<u> </u>			_								
u acres	H2OGEOL A GROUNDWITER CONSULTANCY							СН	AIN	OF C	ะบริ	TOD	Ϋ́	
112061.01.	a GROUX	DITITER	COASUL	LA ACA			DA	TE: 10	0/13/9	5	PAGE	1	of	1
P.O. BOX 216							Sampl	e Sou	rce:	-				
LIVERMORE.	CALIFORNIA	94551-216	55				Wilan							
******	C D 1	e Maland							hore Fr	ontag	e Roa	d		
SAMPLER(S):	Gary D. Lov	ve & Richard	C. Vorst		-		Alban	y, CA						
SAMPLER'S SIGNATU	RE Y	711	2		,			A	NALY	E				
	SAMPLE RECIEPT:						1	-						
701	AL No of CONTAB		;		PH-gasoline (6030/8015M) plus		1		1		1			æ
	IN OF CUSTODY'S				₹		1		- 1	1				2
					ē	=		- 1	- 1	1				¥.
	т осоо сохот				Įş	ă		₹		į				ð
CO.	FORMS TO RECO	RD			18	2,8		草		1				FC
1.AI	B NO.				1	BTEX (EPA 602/8020)	:	EPA 3650/8015M)						NUMBER OF CONTAINERS
;			훙	₹	3	ଛି	-		1			BE		
Ĭ							TPH-diesel	8	- 1	1				3
					ΙĖ	鱼	ĮŹ į	<u> </u>	- 1		1 :			2
SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.] -	. 60	۱۳ ۱	٦)	1	1)			
1077/MW-4/8 6-7	10/12/95	10:30	soil	T	╁╴.	_			+	+		-		
1007111111 4007	10/12/30	10.30	3011	<u> </u>	<u> </u>		×	_	Ц.	┺		<u> </u>		1
				J]							•	1	
				ľ	T			\top	$\neg \vdash$	1				
	 	 		 	 	-	├		+	+	-			
	ļ			 	<u> </u>		└ ─	<u> </u>		╄		\sqcup		
				i	1			- 1	Į	1		1		
		[11.					7	1				
	 		<i>/</i>	V-{J	 	_		- -		╁	-	\vdash	-	\vdash
ļ <u></u>		 			1.1	ð				1	<u>L</u>			
	j i	}		Y	ł	1	•	ŀ	-	1	1 1			
			1					$\neg \vdash$	Plea	se not	e ene	cial n	ricina	
	 			 								•	•	
	ļ		<u> </u>						per O	uotati	on No	. 95-	3093	1
										10-	DAY	TAT		
				<u> </u>		:			_L					
								T		П				
RELINQUISHED BY:	0			RELINOUISHED	BY: La	bornto	ну Сыпе	+						
SIGNATURE	ربه بسيماليجز	12cz		SIGNATURE										
•	- Sugar	f	TIME			$\overline{}$						TIME		_
PRINTED NAME	Gary D. Low	re	_11:5 5 _	PRINTED NAME				_						- 1
	H20GEOL DATE								_			DATE		- 1
COMPANY	COMPANY		SUPE	RIOR /	ANAL	YTICAL		_			- 1			
RECEIVED BY: Laborat	ory Custner			RECEIVED BY L	ABORA	TOP	:		17					
SIGNATURE	Du.	Ind	1155	SIGNATURE		///	q		-17					- 1
			TIME		-	1	``	. /	~ U			TIME		Ì
PRINTED NAME	Geo1	-Jano	10/13/95	PRINTED NAME	ī	μ_{α}	lan	_14	a(A)		_]	TIME	O	Į
	DATE				COMPANY SUPERIOR ANALYTICAL (0/(3/1)						_			
COMPANY	SUPERIOR A	NALYTICAL		COMPANY		SUPE	RIOR A	NAL'	YTICAL		10	2/(3	19)]



P.O.Box 2165 - Livermore California 94551 - 510-373-9211

ATTACHMENT D

LOG OF WELL SAMPLING ACTIVITIES

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW. L Project Name: 1077 Eastshore Frontage Rd, Alberry, CA Deta: 10/17/95	_									
Sampled by: G. Lowe & R. Voret Weather Conditions: Class, 74°F, Calu-	_									
Well Location: South of Court Well Casing Diameter: 2-inch Depth of Well Casing: 14.1	2									
Messuring Point: Top of PVC Casing Initial Depth to Weter: 5,30 Final Depth to Water: Not measured										
Cosing Volume (1 vol / 3 vol): 1.35 /4.04 Well Borehole Volume:										
Purging Method: Centrifugal Pump/Perietatitic Pump Grundfoe Submersable Pump Centrifugal Pump/ES-60 Submersable ES-60 Submersable Pump X Teffon Bailer										
Purgang Rete: See below Total Discharge: 5.9 Casing Volumes Purgad: 4.4										
Comments:	_									
Weste Water Disposal: To property site drum.										
Starting Time: 11 56										
Time Pump on: 11:34										
Date Time Gal. Purged pH T deg. F Diluted S.C. Dil. Factor S.C. (uS/cm) Color	7									
	1									
10/17/95 11:41 52 length 7.05 72.1 11,860 x 2 - Gray-	7									
" 11 :47 5.6/mg 17.44 70.2 14,530 x 2 =	1									
11 11:49 5.7 kmpt 07.40 70.1 14230 x 2 =	7									
11:54 5.9/cmx: 47.44 70.1 14.190 x = = 11	7									
: x +	7									
	7									
	7									
	1									
	7									
	7									
Sample identification: 1077/MW- L Sample Time: //:58	_									
TURBIDITY ANALYSIS Finishing Time: 12.03 Time Analyzed: NTU Value:										

LOG OF WELL SAMPLING ACTIVITIES

Well Identification:				Eastshore Fro					10: <u>10/17/95</u>
Well Location:						2-Inch	•	•	ising: 14-21
Measuring Point: 10	o of PVC Casing	Instrai	Depth to V	Vater: <u>6-5</u> :	7_	Fin	ei C	lepth to Water:	Not measured
Casing Volume (1 v	ol./3 von: 1.22	136	<u>.L</u>			Well Borel	nole	Volume:	
Purging Method:	Centrifugal Pump Grundios Subme Centrifugal Pump ES-60 Submerati	reible Pum /ES-60 Su	0	×	Sa	mpiing Met	hod		omerable Pump Irable Pump
Purging Rate: Se	e below	Total Disc	;harge:	5.4		Ca-	ė ir ię	Volumes Purged	4.43
Correments:	macro g	(0 pa/	<u>ер</u> е	550,6	_		_		
Waste Water Dispo	ed: <u>To proper</u>	ty eite drui	m.		_		_		
Starting Time:									
Date Time	Gal. Purged	На	T den E	Diluted S.C.		Dil. Factor	_	S.C. (uS/cm)	Color
10/17/95 /2 :08			1.000.	0.1010-0101	×	2.1.1.0		0.07 @ 970.117	1
1 2 11	408-40	V 81	72.		1		F	w 33	
172.11	4.91emst	5 75	7.5		×		-	16,320	25
11 172:14	5.1 lengted	7.07	72.4		×		Ħ	/6, 3 80	10
12 /G	5.3 Comptil	4.71	73.0		×		-	16,210	
V 1/2 /8	5.4/emplish	6.53	72.6.		Ľ		-	16,240	
		ļ	 	ļ <u> </u>	×	<u> </u>	=		
	ļ				×		Ξ		
	 -		<u> </u>		×		=		
		ļ	ļ	ļ	×		=		
<u> </u>	<u> </u>				×		Ŀ		
	<u> </u>		<u>L</u>	<u> </u>	×		=		
Sample Identific	ation: <u>1077/M</u> M	-4		Sample Time	:				
Finishing Time:		-		Tir	ne /	TU Inalyzed:	RBI	DITY ANALYSIS	/alue:



P.O.Box 2165 . Livermore California 94551 . 510-373-9211

ATTACHMENT E

GROUNDWATER SAMPLE ANALYTICAL RESULTS

SUPERIOR ANALYTICAL LABORATORY, INC. LABORATORY NUMBER 20316



Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY P.O.BOX 2165

Date: October 27, 1995

LIVERMORE, CA 94551

Attn: GARY D. LOWE

Laboratory Number : 20316

Project Number/Name : 1077

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

SAL Analytical Laboratory

H20GEOL A GROUNDWATER CONSULTANCY Attn: GARY D. LOWE

Project 1077 Reported on October 23, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE

by EPA SW-846 5030/8015M/8020

Gasoline Range quantitated as all compounds from C6-C10

Chronology					Labo	ratory Num	nber 20316
Sample ID		Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-4	ıs	10/17/95	10/18/95	10/19/95	10/19/95	BJ191.04	01
HW-L		10/17/95	10/18/95	10/19/95	10/19/95	BJ191.04	
QC Samples							
QC Batch ≠	QC Sample ID		тур	eRef.	Matrix	Extract.	Analyzed
BJ191.04-01	Method Blank		ЖB	· · · · · · · · · · · · · · · · · · ·	Water	10/19/95	10/19/95
BJ191.04-02	Laboratory Spike		LS		Water	10/19/95	
BJ191.04-03	Laboratory Spike Duplicat	:6	LSI	•	Water	10/19/95	
BJ191.04-04	DW1		MS	20315-01	l Water	10/19/95	
BJ191.04-05	DW1			20315-0		10/19/95	



H2OGEOL A GROUNDWATER CONSULTANCY

>> Surrogate Recoveries (t) << Trifluorotoluene (SS)

Attn: GARY D. LOWE

Project 1077

Reported on October 23, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE by EPA SW-846 5030/8015M/8020

Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID										Matr	Ĺχ	Dil.Pactor	Moistur
20316-01	HW-4		_	_							Water		1.0	
20316-02	MW-L										Wates		1.0	-
		R E	sυ	L	T S	0	r	A I	N A I	L Y	SIS	;		
Compound		20	316	-01			2031	l6	02					
		Cc	nc. /L				Conc ug/I	:.	_					
Gasoline_Range		M	,	5	ō		ND		50				·	
Benzene		NÊ	,	0	.5		1.3		0.5					
Toluene		NE)	0	.5		ND		0.5					
Ethyl Benzene		NE)	0	.5		0.6		0.5					
Total Xylenes		NE	,	0	. 5		0.5		0.5					

97



Gasoline Range Petroleum Hydrocarbons and BTXE by EPA SW-846 5030/8015H/8020 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20316 Hethod Blank(s)

BJ191.04-01 Conc. Rt. ug/L

Gasoline Range	ND	50
Benzene	ND	0.5
Toluene	MD	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5

>> Surrogate Recoveries (%) << Trifluorotoluene (SS)



Gasoline Range Petroleum Hydrocarbons and BTXE by EPR SW-846 5030/8015H/8020 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20316

Compound	Sample conc.	SPK Level	SPK Result	Recovery	Limits 1	RPD
	Fo	r Water Katri	x (ug/L)			
вј	191.04 02	/ 03 - Labora	tory Control Sp	ikes		
Gasoline_Range		2000	2100/2000	105/100	65-135	5
Benzene		20	19/19	95/95	65-135	0
Toluene		20	19/19	95/95	65-135	0
Ethyl Benzene		20	19/19	95/95	65-135	0
Total Xylenes		60	58/57	97/95	65-135	2
>> Surrogate Recoveries (%) <	<					
Trifluorotoluene (SS)				123/123	50-150	
	Fo	r Water Hatri	x (ug/L)			
gJ	191.04 04	/ 05 - Sample	Spiked: 20315	- 01		
Gasoline Range	ND	2000	1831/2010	92/101	65-135	9
Benzene	ND	20	25/21	125/105		17
Toluene	иD	20	20/20	100/100		0
Ethyl Benzene	ND	20	20/20	100/100	65-135	ŏ
Total Xylenes	ND	60	59/61	98/102	65-135	4
>> Surrogate Recoveries (%) <	<					
Trifluorotoluene (SS)				97/100	50-150	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD * Relative Percent Difference

ug/L = parts per billion (ppb) mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb) mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

H2OGEOL A GROUNDWATER CONSULTANCY Attn: GARY D. LOWE

Project 1077 Reported on October 27, 1995

Total Petroleum Hydrocarbons as Diesel

by EPA SW-846 Method 8015M

Diesel Range quantitated as all compounds from C10-C25

Chronology					Labo	ratory Num	ber 20316
Sample ID		Sampled	Received	Extract.	Analyzed	QC Batch	LAB#
MW-4		10/17/95	10/18/95	10/23/95	10/25/95	BJ231.29	01
MW-L		10/17/95	10/18/95	10/23/95	10/25/95	BJ231.29	02
QC Samples							
QC Batch #	QC Sample ID		Ту	peRef.	Matrix	Extract.	Analyzed
BJ231.29-01	Method Blank		мв		Water	10/23/95	10/25/95
BJ231.29-02	Laboratory Spike		1LS		Water	10/23/95	10/25/95
BJ231.29-03	Laboratory Spike	Duplicate	LS	Ď	Water	10/23/95	10/25/95



H2OGEOL A GROUNDWATER CONSULTANCY Attn: GARY D. LOWE

Sample ID

LAB ID

Tetracosane

Project 1077 Reported on October 27, 1995

Moisture

Matrix Dil.Factor

Total Petroleum Hydrocarbons as Diesel by EPA SW-846 Method 8015M

Diesel Range quantitated as all compounds from C16-C25

Diesel:		440	50	180		50		 	
		ug/L		ug/	L				
		Conc.	RL,	Con	¢.	RL			
Compound		20316	-01	203	16-0	2			
		REST	LTS	OF	A N	A L	YSIS		
20340-02	MM-D						Water	1.0	•
20316-01	MW-4 MW-L						Water	1.0	•



Total Petroleum Hydrocarbons as Diesel by EPA SW-846 Method 8015M Diesel Range quantitated as all compounds from C10-C25

Quality Assurance and Control Data

Laboratory Number 20316 Method Blank(s)

BJ231,29-01 Conc. RL ug/L

Diesel: ND

>> Surrogate Recoveries (%) << Tetracosane 84



Total Petroleum Hydrocarbons as Diesel by EPA SW-846 Method 8015M Diesel Range quantitated as all compounds from C10-C25

Quality Assurance and Control Data

Laboratory Number: 20316

Compound Sample SPK Level SPK Result Recovery Limits RPD conc. % %

1000

For Water Matrix (ug/L)
BJ231.29 02 / 03 - Laboratory Control Spikes

1340/1180

>> Surrogate Recoveries (*) << Tetracosane

92/90 50-150

50-150

13

134/118

Definitions:

Diesel:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug,L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Page 4 of 4

20316

			<u> </u>	\sim 1 $^{\circ}$	<u>}</u>									
		_						HAI	N C	FC	บร	roc	Ϋ́	
R ₂ OCEOL	A GROUN	PITTER	CONSULT	T 1 VC 3			DATE:				AGE	1_	of	1
P.O. BOX 2165		 -	_				Sample Si		:					
LIVERMORE,	CALIFORNIA	94551-216	5				Wilanco, I 1077 Eas		. e					- 1
SAMPLER(S):	Gary D. Low	re & Richard	C. Vorst				Albany, C		e rio	· · · · · · ·	nos	•		
	7		7 0		•		•••							
SAMPLER'S BIGNATU	RE: X	my U	<u>~</u>					ANA	LYTE	_	_		_	_
	SAMPLE R	ECIEPT:			TPH-gasoline (5030/8015M) plus		,			1				ا ؞؞ا
रठा	AL No of CONTAIN	ERS	-		ŝ					i	İ.,			EB
СНА	IN OF CUSTODY S	EAS	_		19					[¥
RECT GOOD CONDITIONICOLD					9/80	30	_			j	l			ž
CONFORMS TO RECORD					030	/80	Σ		ĺ	ł				ဗ
اما (9	302	100			1				ō			
I - "			ļ		훙	Ă	76 OS						1	133
					\$80	BTEX (EPA 602/8020)	TPH-diesel IEPA 3550/8015M)			1	1			NUMBER OF CONTAINERS
					莊	2	ž š							z
SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	1	00 1	- =			1			1	
1077/MW-4	10/17/95	12:23	water	1	×	_	x			_		 -		3
1077/MW-L	10/17/95	11:57	water	 	X	_	×		-	\vdash		┝	-	3
		11		 					\vdash	-		-	\vdash	H
			1 -1L-					_		\vdash		H		
<u> </u>			/	Cool.						-		-		
 				No.	-				-	_	\vdash	Т.	H	Н
				 / -							\vdash		\vdash	
ļ <u></u>	ļ			ļ					ļ	<u> </u>	L			
	<u> </u>											<u> </u>		
									Pieas	e not	e spe	cial p	ricing	,
ļ						-		p	er Qu	otsti	an No	. 95-	0093	it i
				-				İ		10-	DAY	TAT		
· · · · · · · · · · · · · · · · · · ·	<u> </u>							-				_		
						_			_			-		-
RELINGUISHED BY:	1			RELINQUISHED	BY: La	borate	огу Сиглет				·			
SIGNATURE	Agen.	Alva		SIGNATURE										
		-1R	TIME /								~	71ME		
PRINTED NAME	Gary D. Low	/e	1534	PRINTED NAME	<u> </u>									
ļ	H20GEOL DATE											DATE		
COMPANY	OMPANY 10/17/95						ERIOR ANA	U.YT	ICAL					
i	RECEIVED BY: Laboratory Curner				ABORA	TORO!	1	II				14	_, _{},}	. ,
SIGNATURE				SIGNATURE	-	\mathcal{L}	٧٠	4			=	_[_		4
PRINTED NAME	_		THAT	PAINTED NAME AND A TOLON (10/1)/95						<u>_</u>				
			DATE	1.9 C 31						ノ]				
COMPANY				COMPANY	;	SUP	RIOR ANA	LYT	ICAL	,				