

Phone: (925) 283-6000

Fax: (925) 283-6121

July 30, 2001

Mr. Barney Chan **ACHCSA** 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

AUG 0 2 2001

Subject:

 $\begin{array}{c} \textbf{Monitoring Well and Pump Installation} \\ 245 \ 8^{th} \ Street \end{array}$

Oakland, California AEI Project No. 4332

Dear Mr. Chan:

Enclosed is a copy of our report documenting the well and pump installation activities at the above referenced property.

Please call me at (925) 283-6000 if you have any questions.

Sincerely,

Project Geologis

July 31, 2001

AUG 0 2 2001

MONITORING WELL AND PUMP INSTALLATION REPORT

245 8th Street Oakland, California

AEI Project No. 4332

Prepared For

Mr. Victor Lum Vic's Automotive 245 8th Street Oakland, CA 94607

Prepared By

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

AEI

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1.0 Introduction

AEI Consultants (AEI) has prepared this report on behalf of Mr. Victor Lum and documents the groundwater investigation and pump system installation performed at the property located at 245 8th Street in Oakland, California (Figure 1). The project has been performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA) to further investigate the extent of hydrocarbon impacted groundwater in the vicinity of the property. In addition, a free product recovery system has been installed to remove non-aqueous phase liquid (NAPL) hydrocarbons from the water table.

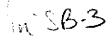
2.0 SITE DESCRIPTION AND BACKGROUND

The property (hereafter referred to as the "site") is located in a commercial and residential area of Oakland. The site is a lot on the south corner of Alice Street and 8th Street and is currently developed with a gasoline station and auto repair facility. Refer to Figure 2 for a visual description of the site.

Between June 1993 and August 1994, AEI removed a total of seven (7) underground storage tanks (UST) from the property. The tanks consisted of four (4) 1,000 gallon and two (2) 6,000 gallon gasoline tanks and one (1) 250 gallon waste oil tank. The former locations of the tanks are shown on Figure 2. Impacted soil was removed from beneath the former tank area. Groundwater was encountered beneath the former 6,000 gallon tanks. NAPL was observed on the water table beneath the southern tank. The excavated soil was transported to an appropriate disposal facility and the excavation was backfilled with clean fill material.

Two groundwater monitoring wells (MW-1 and MW-2) were installed in July 1995. The first two episodes of monitoring revealed Total Petroleum Hydrocarbons (TPH) as gasoline and benzene up to 210,000 μ g/l and 720 μ g/l, respectively, in MW-2. Floating gasoline product, a NAPL, was discovered in MW-1, which ranged from 1.20 to 4.39 feet thick between December 1995 and March 1996.

Three soil borings (SB-1 through SB-3) were advanced in August 1996. Groundwater samples collected from each of the borings contained TPH as gasoline and benzene ranging from 120,000 to 140,000 μ g/l and from 12,000 to 19,000 μ g/l, respectively. MTBE was also present in all three samples, up to 27,000 μ g/l. Although NAPL was not observed in the field, the laboratory observed immiscible sheen. Manual bailing and pumping of NAPL from MW-1 and monitoring of MW-2 occurred intermittently through 1997.





3.0 GEOLOGY AND HYDROGEOLOGY

According to logs of the two soil borings recently advanced by AEI, the near surface native sediments beneath the site consist of fine to medium sand, ranging from clean to silty and clayey. Saturation was observed during the drilling at approximately 20 feet bgs in each boring. Static groundwater existed in the constructed wells at 15 to 16 feet below ground surface (bgs).

The site is located at 29 feet above Mean Sea Level (MSL). The site is flat; however, the topography of the area slopes gently to the southwest. Water level measurements were made during the first groundwater monitoring and sampling episode conducted on February 2, 2001. Serving properties are level ranged between 11.07 and 12.01 feet above MSL. Elevations of the tops of the well casings were surveyed relative to MSL by David Logan (California Professional Land Surveyor No. 5003) in July 2001.

The water level measurements were collected in order to calculate the hydraulic gradient and groundwater flow direction. Based on these measurements, groundwater the south continued. The hydraulic gradient was calculated as 0.0074 ft/ft. Refer to Table 1 for groundwater elevation data and to Figure 3 for a water table contour map.

4.0 PERMITS

A workplan was prepared for and approved by the ACHCSA for the scope of work described herein. Permits were obtained from the Alameda County Public Works Agency, Water Resources Section, for the installation of the county Public Works Agency, Water Rependix A for well permitting documentation.

5.0 WELL INSTALLATION AND CONSTRUCTION

On May 25, 2001 a total of two (2) soil borings were advanced. The borings were converted to monitoring wells MW-3 and MW-4. Refer to Figure 3 for locations of the wells. The borings were advanced with a hydraulic rotary drill rig running 10 ½ inch O.D. diameter hollow-stem augers. Cuttings generated during the well installation activities were stored on-site in sealed, labeled 55-gallon drums.

Each horing was a second to 25 feet begg. Soil samples were collected at five foot intervals from each boring to characterize the sediments of the site and for possible chemical analysis. The borings were logged using the Unified Soil Classification System. Detailed logs of the soil borings are presented in Appendix B. Soil samples were sealed within brass liners with Teflon tape and plastic end caps and stored over ice during transportation to the laboratory.



The wells were constructed of 4" diameter Schedule 40 flush threaded PVC well casing. Each well was constructed with 15 feet of factory slotted 0.020 well screen fitted with flush threaded end cap. The remainder of the well was constructed with blank casing to ground surface. The casing was installed through the hollow augers. 2/16 Monterey sand was poured through the auger to form a sand pack from the bottom of the well to 2 feet above the slotted well screen. A 1.5 foot layer of bentonite pellets was placed above the sand and hydrated with tap water, to form a seal against the cement grout slurry. The remainder of the boring was filled to 0.5 feet below grade with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top. Refer to the boring logs (Appendix B) for a visual description of well construction details.

6.0 WELL DEVELOPMENT AND SAMPLING

The two newly installed wells were developed on June 6, 2001. The wells were first surged using a surge block to loosen any accumulated fines from the well screen and sand pack. The wells were then pumped, until clear, with a minimum of 10 well volumes removed. Well MW-3 pumped freely during the development; however, well MW-4 ran dry several times during development.

The first episode of groundwater monitoring and sample collection occurred on June 29, 2001. Prior to the collection of samples, the wells were opened and water levels from the top of the casings were measured with an electric water level meter. Wells MW-1 and MW-2 were checked for free product using an interface meter. Each of the three wells not containing free product (MW-2 through MW-4) were then purged and sampled. Approximately 3 well volumes of water were purged from each well using a submersible purge pump. During the purging of the wells, the following parameters were monitored: temperature, pH, and total dissolved solids (TDS). Once water volumes returned to within 90% of their original volume, a sample was collected from each well. Refer to Appendix C for Groundwater Well Sampling Field Forms, which include details on the sampling of each well.

The groundwater samples were collected from each well using clean disposable bailers. Water was poured from the bailers into 40 ml VOA vials and capped so no head space or air bubbles were visible within the sample containers. The samples were labeled and placed on ice and transported under chain of custody protocol for analysis to McCampell Analytical Inc. (DOHS Certification Number 1644) of Pacheco, California.

7.0 SAMPLE ANALYTICAL RESULTS

A total of four (4) soil samples and three (3) groundwater samples were analyzed during this project. Each sample was analyzed for TPH as gasoline (EPA Method 5030/8015), benzene,



toluene, ethyl-benzene and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by (EPA Method 5030/8020). The groundwater sample from MW-2 was reanalyzed for fuel oxygenates, including MTBE, by EPA method 8260B.

No concentrations of petroleum hydrocarbons were detected in any of the soil samples analyzed. Refer to Table 1 and to Appendix D for soil sample analytical documents.

1. TPH as gasoline, benzene, and MTBE were detected in MW-2 at $69,000 \, \mu g/l$, $7,200 \, \mu g/l$, and $4,400 \mu g/l$, respectively. TPH as gasoline was detected in MW-4 at $550 \, \mu g/l$. No detectable concentrations of hydrocarbon were present in MW-3. Refer to Table 3 and to Appendix D for groundwater sample analytical documents.

8.0 NAPL RECOVERY SYSTEM INSTALLATION

A NAPL recovery system was installed in MW-1 in July 2001. The system consists of a bladder pump suspended above the water table. The product intake port is located on a water/NAPL interface float, designed to minimize the amount of water removed from the well. The pump is operated by a 4 horsepower compressor at an operating pressure of between 80 and 120 pounds per square inch (psi). The compressor only runs between 8:00 am and 6:00 pm, to minimize disturbance to the residents of the area. The recovered liquid is stored in a 55-gallon drum. The drum is equipped with a high-level shutoff valve, which cuts off the air supply to the pump.

9.0 SUMMARY AND RECOMMENDATIONS

This project consisted of the installation of an additional two groundwater monitoring wells and a NAPL recovery system. The recent episode of groundwater monitoring confirmed a groundwater flow direction to the south/southeast. NAPL and dissolved phase hydrocarbons appear to be limited in lateral extent to the north and east.

The thickness of NAPL present in MW-1 remained since 1998, when recovery ceased, providing a constant source for continued dissolution of hydrocarbons into the groundwater system. Recovery of this NAPL will continue with the recently installed system. Recovery rates and change in NAPL thickness will be reported with subsequent monitoring reports. Sampling of the three other wells will continue on a quarterly basis. The next episode is scheduled for September 2001.

Based on the results of the August 1997 investigation, it is evident that the NAPL has spread to the west and south of the site, as has the dissolved phase plume. Additional off-site monitoring wells will be necessary to assess the extent of the impacted groundwater. Proposed locations for additional wells and/or temporary borings will be presented after groundwater flow direction has been confirmed with at least one additional monitoring episode.



10.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and consulting field that existed at the time and location of the work.

Sincerely,

Peter McIntyre

Project Geologist

Joseph P. Derhake, PE

Senior Project Engineer, Principal

COSSATS IN CALIFORNIA CONTRACTOR CALIFORNIA

Distribution: Mr. Victor Lum

245 8th Street

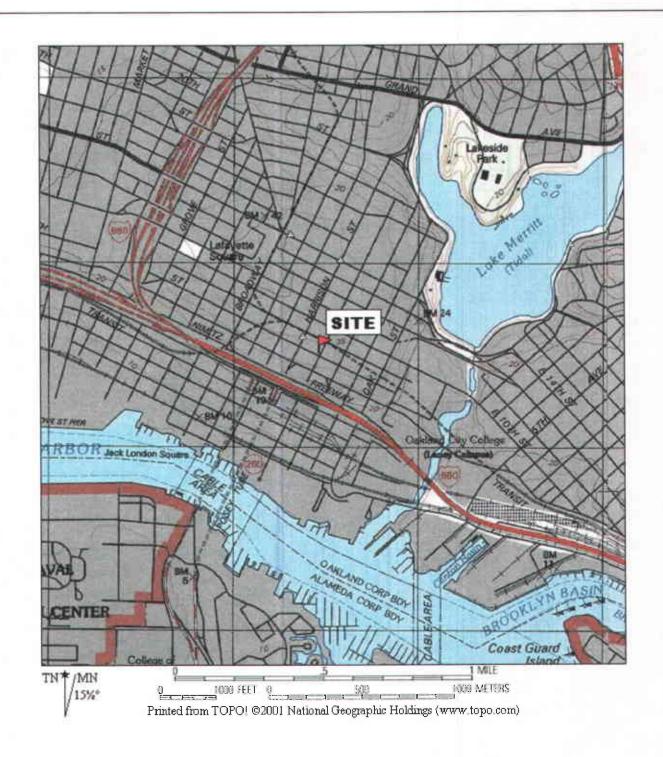
Oakland, CA 94607

Mr. Barney Chan, ACHCSA

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502

AEI

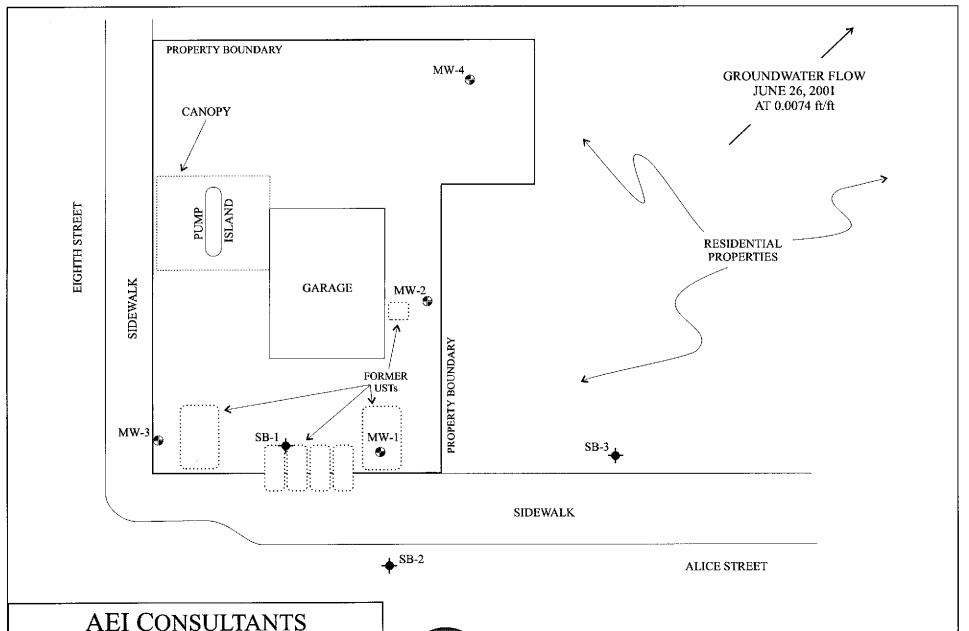


AEI CONSULTANTS
3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

SITE LOCATION MAP

245 8th STREET OAKLAND, CALIFORNIA

FIGURE 1 PROJECT No. 4332





SITE PLAN

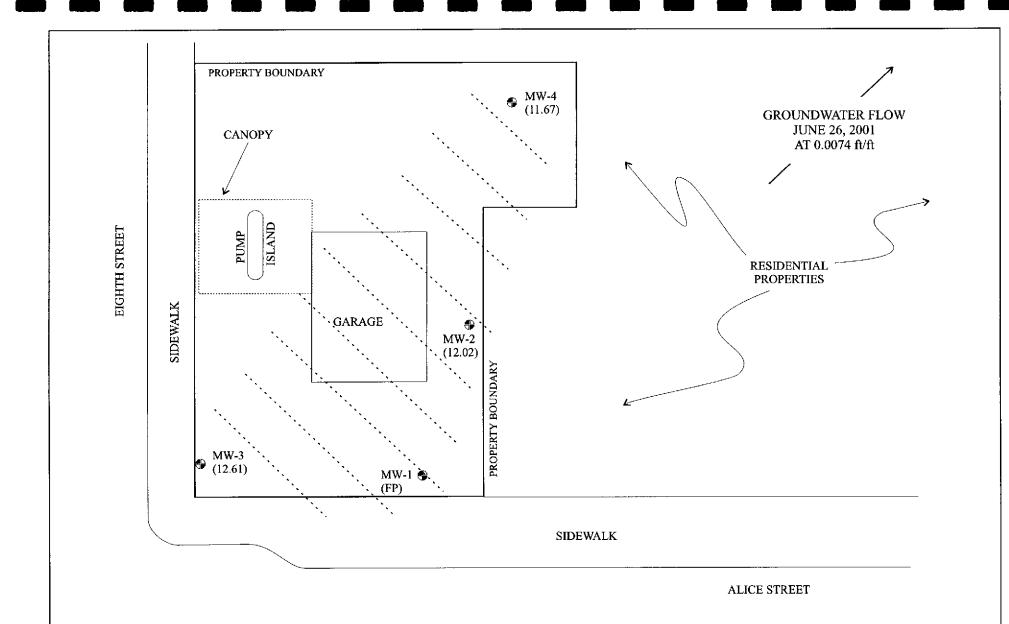
245 8th STREET OAKLAND, CALIFORNIA

FIGURE 2 PROJECT No. 4332



- MONITORING WELLS
- BORING LOCATIONS ADVANCED 8/9/96

SCALE: 1 in = 25 ft



AEI CONSULTANTS 3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

WATER TABLE CONTOURS

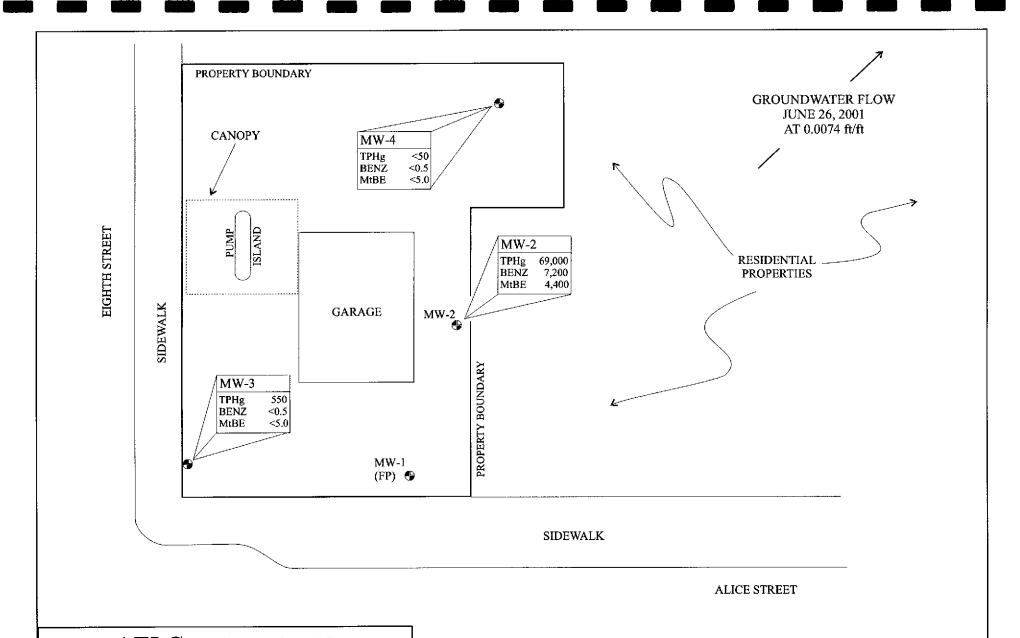
245 8th STREET OAKLAND, CALIFORNIA

FIGURE 3 PROJECT NO. 4332



MONITORING WELLS WITH WATER TABLE ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL (FP = Floating Product)

SCALE: 1 in = 25 ft



AEI CONSULTANTS 3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

DISSOLVED HYDROCARBONS

245 8th STREET OAKLAND, CALIFORNIA

FIGURE 4 PROJECT NO. 4332



MONITORING WELLS:
HYDROCARBON CONCENTRATION
EXPRESSED IN ug/I IN WATER

SCALE: 1 in = 25 ft

TPHg = Total Petrolcum Hydrocarbons as gasoline

BENZ = Benzene

BENZ - Benzene

MtBE = Methyl tert-Butyl Ether FP = Floating Product (NAPL)

Table 1
Groundwater Elevation Data

Well ID	Date Collected	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Depth to LNAPL (ft)	LNAPL Thickness (ft)
MW-1	6/29/2001	27.73	16.52	*	14.89	1.63
MW-2	6/29/2001	28.16	16.14	12.02	-	-
MW-3	6/29/2001	29.21	16.60	12.61	-	-
MW-4	6/29/2001	29.38	17.71	11.67	-	-

^{* =} Measured groundwater level efffected by LNAPL presence, not used to calculated water table elevation All well elevations are measured from the top of the casing

Table 2
Soil Sample Analytical Data

Sample ID	Date Collected	TPHg mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg
MW-3 15'	5/25/01	<1.0	< 0.05	<0.005	< 0.005	<0.005	< 0.005
MW-3 20'	5/25/01	<1.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
MW-4 15'	5/25/01	<1.0	<0.05	< 0.005	< 0.005	< 0.005	< 0.005
MW-4 20'	5/25/01	<1.0	< 0.05	< 0.005	< 0.005	<0.005	< 0.005
MDL		1.0	0.05	0.005	0.005	0.005	0.005

ND not detected

mg/kg milligrams per kilogram

 $TPHg \ total \ petroleum \ hydrocarbons \ as \ gasoline$

MTBE methy tertiary butyl ether

MDL = method detection limit

^{* =} These samples were reanalyzed for fuel oxygenated by EPA method 8260

Table 3
Groundwater Sample Analytical Data

Well/Sample ID	Date Collected	NAPL thichness (ft)	TPHg μg/L	MTBE μg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes μg/L
MW-1	6/29/01	1.63	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
MW-2	6/29/01	0.0	69,000	4400*	7,290	6,100	1,500	7,000
MW-3	6/29/01	0.0	550	<5.0	<0.5	3.1	3.2	1.2
MW-4	6/29/01	0.0	<50	<5.0	<0.5	<0.5	<0.5	<0.5
MDL			50	5.0	0.5	0.5	0.5	0.5

μg/L micrograms per liter

TPHg total petroleum hydrocarbons as gasoline

MTBE methyl tertiary butyl ether

* samples analyzed by EPA Method 8260, all others non detect (refer to laboratory report)

 $\begin{aligned} &MDL = method\ detection\ limit \\ &ns/fp = not\ sampled\ /\ free\ product \end{aligned}$

Note = Historical Groundwater elevation and quality data for wells MW-1 and MW-2 was not available



ALAMEDA COUNTY PUBLIC WORKS AGENCY

Water resources section 399 Elmhurst St. Bayward Ca. 94564-1195 Phone (316) 576-5554 Marlon Magallanes/Frank codd (316) 678-5783 Fax (510)767-1935

DRILLING PERMIT AP	PLICATION
OCATION OF PROJECT 2.45 8 th 5 tree t	FOR OFFICE USE PERMIT NUMBER WO 1 - 269 WELL NUMBER
	PERMIT CONDITIONS Citaled Permit Requirement Apply
CLIENT Name Mr Vic Lum Address 2 205 8764 Phone 5/0 33270/4 Applicant Name Applicant Address 32-10 8 10 76 10	A. GENERAL 1. A permit application should be submitted so so to serve at the ACFWA office five days prior to proposed conting data. 2. Submit to ACFWA within 60 days after completion of central original Department of Water Reconsider—Well Completion Report 1. Permit is void if project not begun within 90 days of approvel data 2. WATER SUPPLY WELLS 1. Minimum surface seal thickness is two inches of
TYPE OF PROJECT Well Consumed on Constitution Cathoolic Procession Constitution Constitution Water Supply Constitution Constitution Monitoring Well Destruction Constitution Constituti	commit grout placed by memic. 2. Minimum sand depth is 50 fact for municipal and industrial wells or 20 fact for demonds and industrial wells wells as lesser depth is specially approved. C. CROUNDWATER MONITORING WELLS . INCLUDING PIRADMETERS 1. Minimum surface seal thickness is two inches of
PROPOSED WATER SUPPLY WELL UST. New Domestic () Registerment Domestic () Municipal () Infection () Industrial () Other () DRILLING METHOD:	coment group placed by barrie. 2. Minimum stal depth for monitoring wells is the medimum depth practicable or 30 feet. D. GEGTECHNICAL Backfill bere hale by namic with coment group or coment groupsed mixture. Upper two-inter fact replaced in kind.
Mud Rolling 12 Air Relaty 7 Augus 20 Cabin 13 Other 13 Augus 20 Au	Trouvesed mixture. Oppos two-infections of with gampaced cuttings. E. CATRODUL Fill hole sends some with construct placed by tremis. F. WELL DESTRUCTION Send a map of work side. A separate parmit is required for wells desper than 45 feet. G. SPECIAL CONDITIONS
Drill Hele Diameter / In. Maximum 5 (1. Dorch 5 (1. Do	NOTE: One application must be submitted for each well or well described on the light borings on one application are acceptable for gentlehities are acceptable for gentlehities are acceptable.
GEOTECUNICAL PROJECTS Number of Bonnes in. Depth 1. History Depth 1. ESTIMATED STARTING DATE 5 2 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	APPROVED MATE 5-7-01
I hereby agree to comply with all regulations of this parmit and Alameda County Of APPLICANT'S SIGNATURE DATE PLEASE FRINT NAME PLEASE FRINT NAME PLEASE FRINT NAME	vis-13-00

P. 01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
195 ELMHURST ST. BAYWARD CA. 14544-1395
PHONE (510) 570-8554 MARLON MAGALLANES/FRANK CODD (510) 570-6783
FAX (510)782-1939

DRILLING PERMIT A	TPPLICATION
for applicant to complete	for office use
GCATION OF PROJECT 245 8th 5+	PERMIT NUMBER WO 1-2-70
	PERMIT CONDITIONS Circled Parmic Requirements Apply
APPLICANT Name POTE VILLAM Address 7.65 87 Phone 792 784 APPLICANT Name POTE VILLAM APPLICANT Name POTE VILLAM ADDRESS FOR CONTRACTOR Phone 2.52 - 655 Address 7.25 97 PROJECT Well Conscrued an George Phone 2.53 - 655 Water Supply G. Contamination G. Water Supply Well USE Now Domestic G. Keplanemen; Domestic G. Musicipal G. Infgarian G. Dhier G. Domestic G. Informatic G. Musicipal G. Infgarian G. Dhier G. Domestic G. Informatic	A. GENERAL 1. A parmit application should be submitted to be to serve at the ACPWA office five stays prior to proposed surving date. 2. Submit to ACPWA within 60 days after completion of forunded original Department of Water Recoursed—West Completion Report. 3. Fermit is void if project not began within 90 days of approval date. B. WATER SUPPLY WELLS. 1. Minimum surface and bischness is two inches of terment grous placed by Francis. 2. Minimum surface and bischness is two inches of industrial walls at 20 feet for domestic and invigation wells unices a larger depth is specially approved. E. CROUNDWATER MONITORING WELLS. 1. Minimum surface seal thickness is two inches of commit group placed by brants. 2. Minimum state depth for monitoring wells is the maximum depth practicable or 20 feat. D. GEOTECHNICAL BISCHNICAL BISCHNICAL E. CATHODIC Fill hole shade some with constant group or expensive or with compacted cretings. E. CATHODIC Fill hole shade some with coherent placed by transc. Fill hole shade some with coherent placed by transc. In well desper him as feet. C. ERECIAL CONDITIONS NOTE: One application must be submitted for each well or well destruction. Multiple berings on one application are acceptable for accidental and contamination investigations.
ESTIMATED STARTING DATE 5/22/0/	APPROVED MATE 5-7-8
I hereby acree to comply with all reducing medic of this permit and Alameda County APPLICANT'S SIGNATURE DATE	
PLEASEPRINT NAME DESCRIPTION CTN TY CLQ	Rev.5-13-00

Project No: 4332

Project Name: LUM

Log of Borehole: MW-3

Client: VIC'S AUTOMOTIVE

Location: NORTH CORNER

	USC	cs		Sar	mple l	Data		:	
Depth (ft)	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0		SM	Ground Surface SAND Fine to medium clean sand Silty sand, damp	MW-3 5'	ss	38	100		PID = 0 ppm No hydrocarbon (HC) odor
8 - 9 - 10 - 11 - 12 - 13 - 13 - 13 - 13 - 13 - 13		SM	Sand with clay and silt	MW-3 10'	SS	22	70		PID = 0 ppm No HC odor
14 - 15 - 16 - 17 - 18 -		sc	Clay increasing	MW-3 15'	SS	54	100		Same as above
19- 20- 21- 22-		SP	Sand - few fines	MW-3 20'	SS	49	100		Strong HC odor PID = 253 ppm
23- 24- 25- 26- 27-		SP	Fine to med sand, saturated End of Borehole	MW-3 25'	ss	43	80		PID = 16 ppm
28	7		2.03						

Drill Date 5/25/01

Drill Method: HOLLOW AUGER

Total Depth: 25 Depth to Water: 20.5 Reviewed by: EW

Logged by: PJM

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Sheet: 1 of 1

Project No: 4332

Project Name: LUM

Log of Borehole: MW-4

Client: VIC'S AUTOMOTIVE

Location: SOUTH CORNER

	USC	s		Sar	nple (Data		i.	
Depth (ft)	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0- 1- 2- 3- 4-	%°5° °°5° 0°5° XXX		Ground Surface FILL CONCRETE SLAB SAND						
5- 6- 7- 8-		SM	Fine sand with few fines	MW-4 5'	SS	8	100		PID = 0 ppm
9- 10- 11- 12- 13- 14-		sc	Clayey sand	MW-4 10'	ss	33	<10		No recovery
15- 16- 17- 18- 19-		sc	Fine to med sand, low clay, damp	MW-4 15'	SS	25	100		PID = 0 ppm No HC odor
20 21 22 23		SP	Fine to med sand, clean Saturated	MW-4 20'	SS	39	100		No HC odor PID = 102 ppm
24 25 26 27 28		SP	End of Borehole	MW-4 25'	SS	35	<20	U	No recovery PID = 93 ppm

Drill Date 5/25/01

Drill Method: HOLLOW AUGER

Reviewed by: EW

Logged by: PJM

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Sheet: 1 of 1

Total Depth: 25 Depth to Water: 20

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-1 Date of Sampling: 6/29/01 Project Name: LUM Job Number: 4332 Name of Sampler: PJM / OA Project Address: 245 8th Street, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") 4" Seal at Grade -- Type and Condition Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 27.63 Depth of Well 25 Depth to LNAPL 14.89 Depth to water 16.52 LNAPL thickness - 1.63 feet Appearance of Purge Water Well not purged GROUNDWATER SAMPLES Number of Samples/Container Size Time Vol Remvd Temp pН Cond Comments (deg C) (mS) (gal) COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Product recovery (Spoiler TM) system installed

LNAPL – light non-aqueous phase liquid (floating product)

TD - Total Depth of Well

DTW - Depth To Water

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-2 Date of Sampling: 6/29/01 Project Name: LUM Name of Sampler: PJM / OA Job Number: 4332 Project Address: 245 8th Street, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 28.16 Depth of Well 25 Depth to Water 16.14 Water Elevation 12.02 Three Well Volumes (gallons)* 2" casing: (TD - DTW)(0.16)(3) 4.25 4" casing: (TD - DTW)(0.65)(3) 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) Appearance of Purge Water Murky (green) GROUNDWATER SAMPLES Number of Samples/Container Size (2)-40 ml VOAs Time Vol Remvd Comments pН Cond Temp (gal) (deg C) (mS) 7.08 1.5 19.8 3 18.9 7.08 6 18.6 7.07 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Strong hydrocarbon odor, sheen present

TD - Total Depth of Well DTW - Depth To Water

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-3 Date of Sampling: 6/29/01 Project Name: LUM Job Number: 4332 Name of Sampler: PJM / OA Project Address: 245 8th Street, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Good Well Cap & Lock -- OK/Replace OK Elevation of Top of Casing 29.21 Depth of Well 25 Depth to Water 16.60 Water Elevation 12.61 Three Well Volumes (gallons)* 2" casing: (TD - DTW)(0.16)(3) 4" casing: (TD - DTW)(0.65)(3) 16.4 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) 16 Appearance of Purge Water Clear **GROUNDWATER SAMPLES** Number of Samples/Container Size (2)-40 ml VOAs Vol Remyd Comments Time Cond Temp pН (gal) (deg C) (mS) Meter malfunction COMMENTS (i.e., sample odor, well recharge time & percent, etc.) No sheen or odor

TD - Total Depth of Well DTW - Depth To Water

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD **SAMPLING FORM** Monitoring Well Number: MW-4 Project Name: LUM Date of Sampling: 6/29/01 Job Number: 4332 Name of Sampler: PJM / OA Project Address: 245 8th Street, Oakland MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Good Well Cap & Lock -- OK/Replace OK 29.38 Elevation of Top of Casing Depth of Well 25 Depth to Water 17.71 Water Elevation 11.67 Three Well Volumes (gallons)* 2" casing: (TD - DTW)(0.16)(3) 4" casing: (TD - DTW)(0.65)(3) 14.2 6" casing: (TD - DTW)(1.44)(3) Actual Volume Purged (gallons) 12 Clear, runs dry twice during purging Appearance of Purge Water GROUNDWATER SAMPLES Number of Samples/Container Size Vol Remvd Temp Comments Time Cond pН (gal) (deg C) (mS) 22.3 6.95 6.96 6 18.0 10 20.5 7.00 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) No product sheen or HC odor

TD - Total Depth of Well DTW - Depth To Water

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #4332; LUM	Date Sampled: 05/25/01
3210 Old Tunnel Road, Suite B		Date Received: 05/25/01
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 05/25/01
	Client P.O:	Date Analyzed: 05/25/01

06/04/2001

Dear Peter:

Enclosed are:

- 1). the results of 4 samples from your #4332; LUM project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton, Lab Director



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All Environmental, Inc.	Client Project ID: #4332; LUM	Date Sampled: 05/25/01
3210 Old Tunnel Road, Suite B		Date Received: 05/25/01
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 05/25/01
	Client P.O:	Date Analyzed: 05/25/01

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethyl- benzene	Xylenes	% Recovery Surrogate
68404	MW-3 15'	s	ND	ND	ND	ND	ND	ND	108
68405	MW-3 20'	S	ND	ND	ND	ND	ND	ND	111
68406	MW-4 15	S	ND	ND	ND	ND	ND	ND	93
68407	MW-4 20'	S	ND	ND	ND	ND	ND	ND	107
									
		:							
	1								
Reportir otherw	ng Limit unless ise stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means no	t detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	1

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

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QC REPORT

Date:

05/25/01-05/26/01

Matrix:

Soil

Extraction:

TTLC

							,
		Concent	%Rec				
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 52201				Instru	ıment:	G	C-7
Surrogate1	0.000	102.000	103.000	100.00	102	103	1.0
Xylenes	0.000	0.293	0.292	0.30	98	97	0.3
Ethyl Benzene	0.000	0.095	0.094	0.10	95	94	1.1
Toluene	0,000	0.098	0.098	0.10	98	98	0.0
Benzene	0.000	0.095	0.099	0.10	95	99	4.1
MTBE	0.000	0.102	0.106	0.10	102	106	3.8
GAS	0.000	0.967	0.968	1.00	97	97	0.1
SampleID: 51701				Instri	ument:	GC-1	1 A
Surrogate1	0.000	106.000	107.000	100.00	106	107	0.9
TPH (diesel)	0.000	320.000	325.000	300.00	107	108	1.6

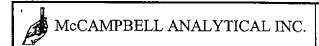
 $\% \text{ Re covery} = \frac{\left(MS - Sample\right)}{AmountSpiked} \cdot 100$

 $RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2.100$

RPD means Relative Percent Deviation

20020 ZAJE 3100

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Report To: Peter N		0-1020		Bill T		Fax: (923)	/98-	1622	<u>'</u>													RU	JSH	<u> </u>	24 F		R 48		
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Tele: (925) 283-60				Fax: ((925)							- ½		0 E&	3				Ì	ĺ ,		/ 831					1			
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g.13 mr =				Containers	Type Containers						\prod	2	 	Total Petroleum Oil	шn	9	BTEX ONLY (EPA 602 / 8020)	88	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	6	PAH's / PNA's by	tals	sis	Lead (7240/7421/239.2/6010)			- }		
SAMPLE ID	LOCATION	Date	Time	ltain	Į į							DIEX & TPH	Dies	lg.	trole	EPA 601 / 8010	NL	EPA 608 / 8080	2,80	7 82	EPA 625 / 8270	PNA	CAM-17 Metals	LUFT 5 Metals	407		1	ĺ		
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All Environmental, Inc.	Client Project ID: #4332; LUM	Date Sampled: 06/29/01
3210 Old Tunnel Road, Suite B		Date Received: 06/29/01
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/29/01
	Client P.O:	Date Analyzed: 06/29/01

07/13/2001

Dear Peter:

Enclosed are:

- 1). the results of 3 samples from your #4332; LUM project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton, Lab Director

Yours truly

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All Environmental, Inc.	Client Project ID: #4332; LUM	Date Sampled: 06/29/01
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Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/29/01
	Client P.O:	Date Analyzed: 06/29/01

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWOCR (SE Bay Region) method (CCEID(5030))

Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethyl- benzene	Xylenes	% Recovery Surrogate
71555	MW-2	w	69,000,a,h	4100	7200	6100	1500	7000	100
71556	MW-3	W	550,b,j	ND	ND	3.1	3.2	1.2	101
71557	MW-4	W	ND	ND	ND	ND	ND	ND	93
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		-							
otherw	ng Limit unless ise stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	1
	t detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

^{*}The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak

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All Environmental, Inc.	Client Project ID: #4332; LUM	: 06/29/01					
3210 Old Tunnel Road, Suite B		Date Received:	Date Received: 06/29/01				
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted:	Date Extracted: 07/09-07/1				
	Client P.O:	Date Analyzed:	: 07/09-07/	/11/01			
EPA method 8260 modified	Oxygenated Volatile Organics By G	C/MS					
Lab ID	71555			·····			
Client ID	MW-2	MW-2		ng Limit			
Matrix	w		S	w			
Compound	Concentration*		ug/kg	ug/L			
Di-isopropyl Ether (DIPE)	ND<100		5.0	1.0			
Ethyl tert-Butyl Ether (ETBE)	ND<100	5.0	1.0				
Methyl-tert Butyl Ether (MTBE)	440	0	5.0	1.0			
tert-Amyl Methyl Ether (TAME)	ND<100		5.0	1.0			
tert-Butanol	ND<500		25	5.0			
	Surrogate Recoveries (%)		JL				
Dibromofluoromethane	97						
Comments:	h		1				

^{*} water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis



⁽h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content

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QC REPORT

EPA 8015m + 8020

Date:	00/00/04 00/00/04
Date:	-06/29/01-06/30/01

Date: 06/29/01-06/30/01					Matrix:	Water	
Commenced		Concen	%Rec				
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
<u>SampleID:</u> 62001	Extraction	EPA 5	6030		Instrumer	<u>it</u> G(C-7
Surrogate1	ND	96.0	96.0	100.00	96	96	0.0
Xylenes	ND	33.6	34.3	30.00	112	114	2.1
Ethylbenzene	ND	10.5	10.7	10.00	105	107	1.9
Toluene	ND	10.3	10.4	10.00	103	104	1.0
Benzene	ND	9.5	9.6	10.00	95	96	1.0
MTBE	ND	10.9	11.1	10.00	109	111	1.8
TPH (gas)	ND	116.7	117.4	100.00	117	117	0.6
SampleID: 62201	Extraction:	EPA 3	510		Instrumen	t GC-2	2 A

Surrogate1 ND 97.0 98.0 100.00 97 98 1.0 TPH (diesel) ND 7825.0 7675,0 7500.00 104 102 1.9

% Re covery = $\frac{(MS-Sample)}{AmountSpiked} \cdot 100$

 $RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2.100$

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QC REPORT

VOCs (EPA 8240/8260)

Date: 07/09/01-07/10/01

Extraction: EPA 5030

Matrix: Water

24.6. 47/05/01-01/10/01		· EFA	JUJU		matrix.	water	
		Concent	%Rec				
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 70101					Instrumen	t GC	-10
Surrogate	ND	91.0	90.0	100.00	91	90	1.1
tert-Amyl Methyl Ether	ND	9.3	9.3	10.00	93	93	0.0
Methyl tert-Butyl Ether	ND	9.4	9.4	10.00	94	94	0.0
Ethyl tert-Butyl Ether	ND	9.9	9.9	10.00	99	99	0.0
Di-isopropyl Ether	ND	10.6	10.7	10.00	106	107	0.9
Toluene	ND	9.6	9.7	10.00	96	97	1.0
Benzene	ND	10.1	10.2	10.00	101	102	1.0
Chlorobenzene	ND	10.3	10.4	10.00	103	104	1.0
Trichloroethane	ND	7.2	7.3	10.00	72	73	1.4
1,1-Dichloroethene	ND	12.1	12.2	10.00	121	122	8.0

McCAMPBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553 TURN AROUND TIME Telephone: (925) 798-1620 Fax: (925) 798-1622 RUSH 24 HOUR 48 HOUR Report To: Peter McIntyre Bill To: Analysis Request ~~ Other Comments Company: All Environmental Grease (5520 E&F/B&F) 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157 8015) MTBE PAH's / PNA's by EPA 625 / 8270 / 8310 Tele: (925) 283-6000 Fax: (925) 283-6121 Total Petroleum Hydrocarbons (418.1) Project #: 4352 Project Name: UM Project Location: 344 /4100 BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 PCB's ONLY Lead (7240/7421/239.2/6010) Sampler Signature: BTEX & TPH as Gas (602) Total Petroleum Oil & EPA 624 / 8240 / 8260 SAMPLING METHOD **MATRIX** TPH as Diesel (8015) PRESERVED Type Containers # Containers EPA 601 / 8010 EPA 608 / 8080 CAM-17 Metals EPA 625 / 8270 LUFT 5 Metals SAMPLE ID LOCATION Air Sludge Other Date Time HNO₃ HC Se 71555 MW -Z 6/29 71556 × 71557 × Z. Rephagyished By: Received By: Remarks: VOAS OS METALS OTHER ice/+°____ Religiquished By: Received By: GOOD CONDITION . HEAD SPACE ABSENT CONTAINERS Relinquished By: Date: Received By: