SOIL EXCAVATION AND REMEDIATION REPORT
FORMER TEXACO SERVICE STATION
424 MARTIN LUTHER KING, JR. WAY
OAKLAND, CALIFORNIA
JUNE 5, 1990

GROUNDWATER TECHNOLOGY, INC. CONCORD, CALIFORNIA



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INTRODUCTION

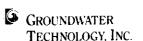
This remediation report presents the criteria for the soil excavation and the results of the on-site remediation of approximately 1,000-cubic yards of excavated soil at the former Texaco Service Station located at 424 Martin Luther King, Jr. Way in Oakland, California (Figure 1). This report covers the period from July, 1988 through March, 1990.

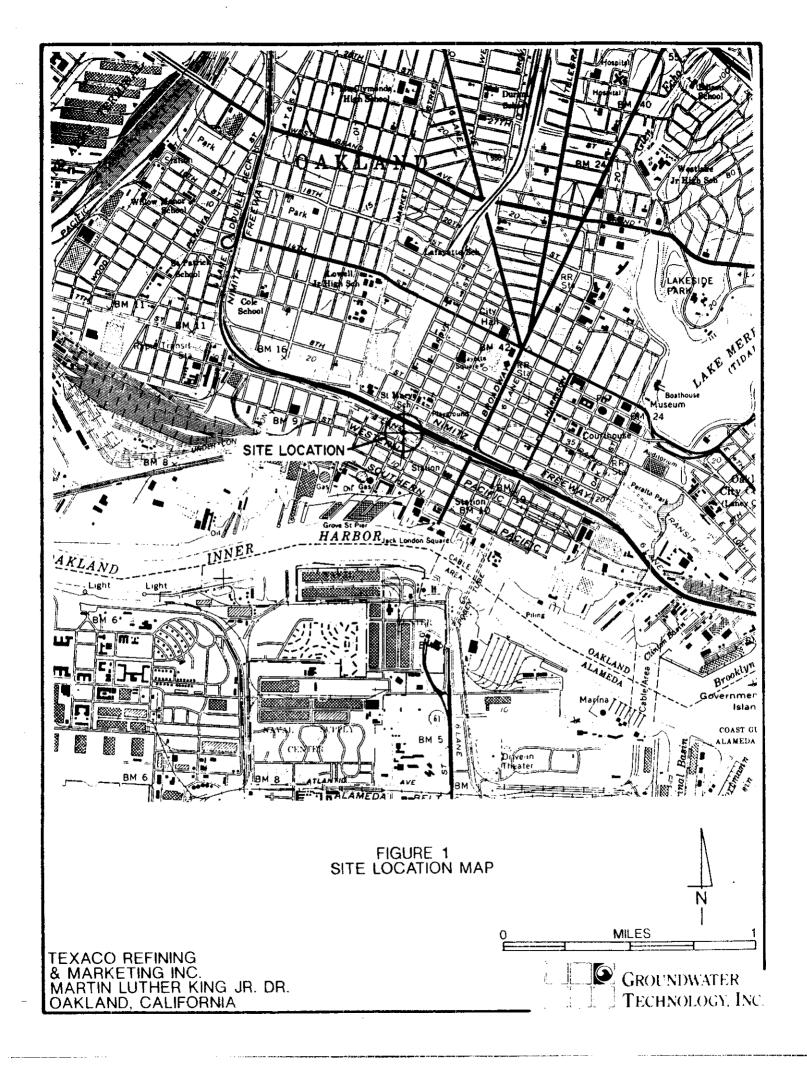
WORK PERFORMED

The work performed during the remediation of the site included a soil sample survey, the destruction of two groundwater monitoring wells, and the excavation of approximately 1,000 cubic yards of soil. Also included in this report are the remediation procedures and results, as well as the procedures and results of the groundwater-monitoring well sampling events.

SOIL SAMPLE SURVEY

On July 20, 1988, a permit was received from the Alameda County Flood Control and Water Conservation District for a subsurface soil-sample survey. A mobile analytical laboratory was contracted on July 27, 1988, to test soil samples from various locations around the former tank pit and pump island areas. Each soil borehole was created by driving a 3/4-inch,





outside-diameter (O.D.), solid-steel rod to subsurface depths of approximately 8-1/2 to 11-feet by using an electric hammer. rod was then removed from the borehole and a smaller, 5/8-inch, O.D. steel rod, equipped with a 3/8-inch, O.D., by 6-inch-long stainless-steel soil-sampling tube was inserted and lowered to the bottom of the hole. The sampling tube was lined with a Teflon^R sample tube. The Teflon^R lined sampling tube was driven 6 inches beyond the bottom of the borehole and then removed. Teflon^R sample tube was then given to the on site mobile laboratory for analysis. Soil samples from 9 boreholes were tested in the Mobile Lab by Gas Chromatography (GC) using U.S. Environmental Protection Agency (EPA) modified Method 8015. Subsequent soil sampling locations (Figure 2) were selected in part by the analytical test results provided by the mobile laboratory. Each new soil sample location was based upon the analysis results from the previous soil samples. Duplicate soil samples were collected from soil sample locations 2, 4, and 8. These duplicate soil samples were taken to a State of Californiacertified laboratory for analyses for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH)-as-gasoline using modified EPA Method 5030/8020/8015.

GROUNDWATER-MONITORING WELL ABANDONMENT

Groundwater-monitoring wells located inside the area to be excavated were abandoned before the excavation of the soil began. On August 12, 1988, a permit was obtained from the Alameda County Flood and Water Conservation District for the destruction of up to three monitoring wells. On September 15, 1988, two 2-inch groundwater-monitoring wells, MW-1 and MW-3, each approximately



MARTIN LUTHER KING JR. DR. **9**2 •2 8 U/G TANK PAD 10 ⊕^{SB3} •3 5th STREET **STATION** LEGEND **O** MONITORING WELL - SOIL BORING SOIL SAMPLE LOCATION FIGURE 2 SITE PLAN **TEXACO REFINING** & MARKETING INC. **GROUNDWATER** OAKLAND, CALIFORNIA TECHNOLOGY, INC.

30-feet deep, were destroyed. A mobile drilling rig equipped with a 8-1/2-inch (O.D.) hollow-stem auger system was used to bore around the 2-inch polyvinyl chloride (PVC) casing of each monitoring well. The PVC casing with the associated cement-bentonite sanitary seal and the No. 2 sand pack around the PVC casing were removed from each monitoring well during the abandonment. Neat cement grout, a pure cement and water mixture, was pumped through the hollow augers to the bottom of the reamed out boreholes using a tremie pipe. The neat cement grout was placed into the boreholes from the bottom in 5-foot lifts as the hollow augers were removed to prevent borehole collapse. Each of the abandoned monitoring-well boreholes were filled with the neat cement grout to grade and leveled to conform to the parking lot surface.

Monitoring well MW-2 was outside the defined limits of the hydrocarbon-impacted soils and did not require destruction.

SOIL EXCAVATION

The work plan for the soil excavation and for the on-site remediation of the hydrocarbon-impacted soils was reviewed by Alameda County Health Care Services and was accepted on November 16, 1988.

Soil excavation took place from December 13 through December 16, 1988. A mobile bucket loader was used for the removal of the suspected soils. The soil was stockpiled along the sides of the excavation for the later construction of a soil treatment pile utilizing a controlled soil-venting and biodegradation system. As the soil excavation continued, two soil samples were collected each day to document the progress of the removal of the suspected



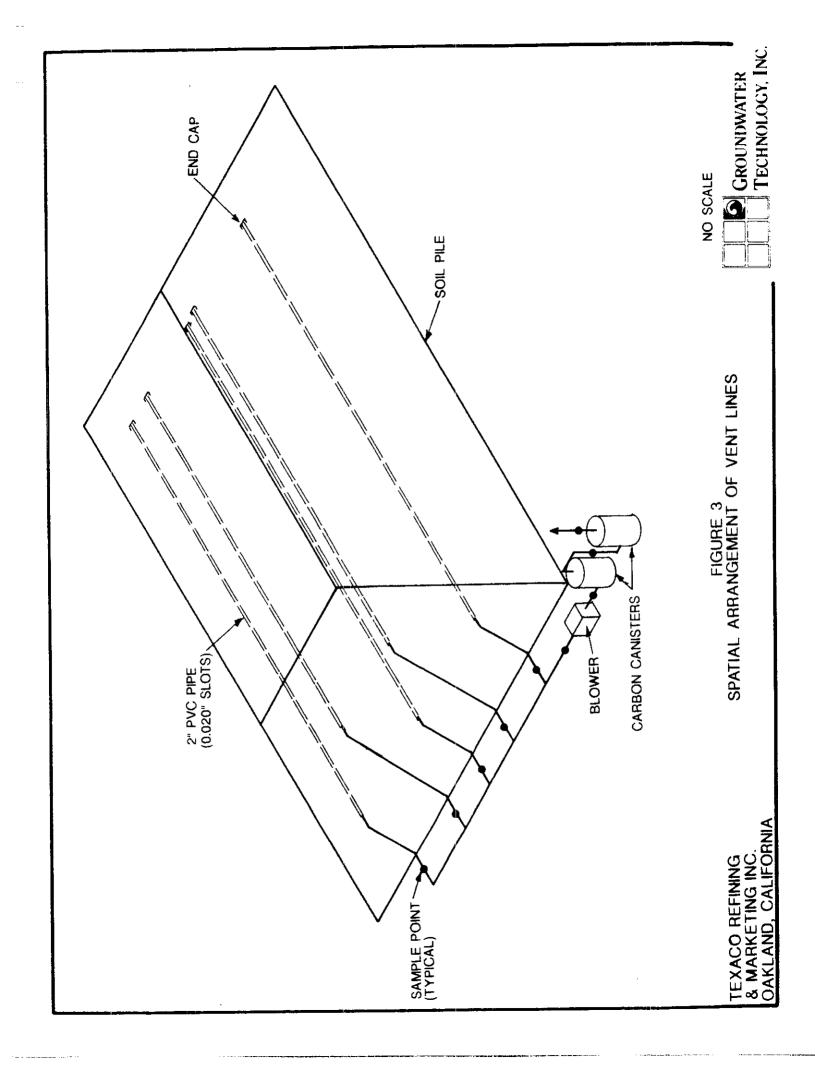
soils. Soil samples were taken to a State of California-certified laboratory to be analyzed for the presence of BTEX and TPH-as-gasoline using modified EPA Methods 5030/8020/8015. Additional soil samples were also collected to be analyzed for the presence of phosphate and ammonium by SM429 and WM417E methods, respectively, in order to obtain information for the design of the bioremediation system. The excavation work was discontinued on December 16, 1988, when the analytical results for the collected soil samples were less than Practical Quantitation Levels (<PQL), indicating that all of the hydrocarbon-impacted soil had been removed. The excavated pit reached a maximum depth of approximately 18 feet near the center of the excavation.

The soil excavation was backfilled with rod mill pea gravel to a depth of approximately 8-feet below grade. The rod mill pea gravel was field tested with a nuclear gauge for compaction by comparison with a compaction curve prepared earlier from a bulk sample. The remaining 8 feet of the excavation was backfilled with clean imported soil by a contractor. The imported clean soil was tested for compaction. The results of the compaction tests performed on the rod mill pea gravel and the imported soil are presented in Appendix A.

SOIL REMEDIATION

The stockpiled hydrocarbon-impacted soil was removed from along the sides of the excavation for the construction of a soil pile utilizing an aboveground aeration/biodegradation treatment system. A backhoe was used for the soil pile construction. A high-density, polyethylene liner was placed on the surface of the parking lot, and approximately 4 feet of hydrocarbon-impacted soil was placed on top of the liner. The base of the soil pile

was approximately 40-feet-wide and 60-feet-long. Three equal lengths of 2-inch, machine-slotted, Schedule 40 PVC well screen were then placed across the soil pile spaced about 10 feet apart across the short dimension. The soil pile was sprayed with a mixture of nutrient-laden water to enhance the development of the naturally occurring microbial flora which would degrade the hydrocarbons. Another 4-foot lift of hydrocarbon-impacted soil was then placed on the soil pile and two equal lengths of 2-inch slotted Schedule 40 PVC were placed at equal distances on top of the soil pile. The soil pile was again sprayed with the nutrient-laden water mixture, as before, and the remaining excavated soil was placed on top, creating a soil pile approximately 12-feet high. The nutrient-laden water mixture was then sprayed over the entire soil pile before it was covered with a wind-resistant tarp to prevent evaporation. The open-ended 2inch slotted Schedule 40 PVC well screen was then attached to a manifold made of 2-inch diameter PVC pipe and air was pulled through the soil pile by a high-vacuum blower. The effluent air from the high-vacuum blower was vented through two 150-pound vapor-phase granular-activated-carbon canisters in series to remove volatilized hydrocarbons from the effluent air (Figure 3). Permission to operate the aboveground aeration/bioremediation system was granted by the Bay Area Air Quality Management District (BAAQMD) on November 7, 1989, for an initial testing and start up of the system (Appendix B).



SOIL SAMPLING

Four soil samples were collected from the corners of the soil pile on February 1, 1989, after the initial start up test of the aeration system was completed. Four more soil samples were collected on May 9, 1989. Ten soil samples were collected on May 31, 1989, using a grid system that divided the soil pile into ten equal parts. A single soil sample was collected on June 22, 1989, from Section 10 of the grid system for additional documentation of the treatment of the soil pile.

On February 1, 1989, the soil samples were collected at approximately 3.5-feet below the top of the soil pile. On May 9, 1989, the soil samples were collected at depths of approximately 5 feet to 7 feet. On May 31, 1989, and June 22, 1989, the soil samples were collected at depths of approximately 1.5- to 2-feet.

Soil sample collection was accomplished by digging a pilot hole for a hand-driven soil auger. The hand-driven soil sampler, fitted with a 2-inch-diameter by 6-inch-long brass soil sampling tube was driven down approximately 12 inches into the soil for the actual sample collection. The soil sample in the brass tube was retrieved from the borehole and removed from the hand sampler. Both ends of the brass tube was covered with aluminum foil, fitted with plastic caps over the aluminum foil, and finally sealed with tape. A cloth label bearing the sample identification number, job number, type of analysis requested, time and the preparer's initials were placed onto the soil samples and the prepared sample was sealed in a plastic bag. The labeled brass tubes in the plastic bags were placed on ice inside an insulated cooler chest for transportation to a State of California-certified laboratory for analysis.

A Chain-of-Custody Manifest was filled out during each collection and handling, and it accompanied the soil samples until they were relinquished at the laboratory. The soil samples were analyzed for the presence of BTEX and TPH-as-gasoline using modified EPA Method 5030/8020/8015. Additional tests were also conducted for organic lead per California Department of Health Services (DHS) recommended methodology.

GROUNDWATER MONITORING

Groundwater-monitoring well MW-2 was monitored on March 28, 1990, for the depth-to-water (DTW) and to check for separate-phase hydrocarbons. Monitoring well MW-2 was left intact to monitor the effectiveness of the excavation and remediation work. Monitoring wells MW-1 and MW-3 were abandoned prior to the soil excavation. Monitoring well MW-2 is located downgradient of the excavation and should serve as a good indicator of the remediation effectiveness.

GROUNDWATER SAMPLING

Groundwater-monitoring well MW-2 was sampled on February 1, 1989, May 12, 1989, and March 28, 1990. The 2-inch-diameter groundwater-monitoring well was purged of groundwater with a clean acrylic hand bailer until stabilization of the pH, conductivity, and temperature occurred, or until approximately four well volumes were removed. The groundwater in the monitoring well was then allowed to recharge to at least 80 percent of the initial water level, or at the most, for an hour, if there was not sufficient water recharge, to assure quality control. A clean U.S. Environmental Protection Agency (EPA)-approved Teflon^R hand sampler was used for groundwater sample

collection. On each sampling date, two groundwater samples were gently decanted into sterile 40 milliliter (ml) vials. ml vials were sealed with Teflon^R septa in such a way that no air was trapped inside. A sample of the final rinse water from the Teflon^R bailer was similarly collected before sampling the well. Each sample was labeled and placed on ice in an insulated cooler chest along with the rinsate blank and a trip blank prepared earlier at a State of California-certified laboratory. blank and rinsate blanks are used as part of the Quality Assurance/ Quality Control (QA/QC) procedures. After the groundwater samples were collected and labeled, a Chain-of-Custody Manifest was prepared to document the sample collection. The Chain-of-Custody Manifest accompanied the water samples to a State of California-certified laboratory where the samples were analyzed for the presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) and for total petroleum hydrocarbons (TPH)-asgasoline using modified EPA Methods 5030/8020/8015.

RESULTS

SOIL SAMPLE SURVEY

The results of the soil sample survey conducted on July 27, 1988 are presented in Table 1. Soil borehole Samples 1 and 2 were collected from a depth of approximately 8-1/2 feet while the remaining bore-hole soil samples were collected from approximately 11-feet below grade. Duplicate soil samples from boreholes 2, 4, and 8 were analyzed at a State of California-certified laboratory for the presence of BTEX and TPH-as-gasoline using modified EPA Methods 5030/8020/8015. The analytical results from the duplicate soil samples and the soil survey results are presented in Appendix C.

The analytical results of the soil sample survey were used in the construction of a Total Volatile Hydrocarbon (TVH) plume map to define the areal extent of the hydrocarbon-impacted soil. Figure 4 displays the soil sample points and TVH concentrations as well as the limits of the defined hydrocarbon-impacted soils. Monitoring wells MW-1 and MW-3 were within the boundaries of the defined hydrocarbon-impacted soil located centrally around the underground storage tank vicinity.

TABLE 1
TOTAL VOLATILE HYDROCARBONS (ppm)

SOIL SAMPLE	DEPTH (ft.)	TVH**	BTEX AND TPH*
1.	8.5	26	
2	8.5	2	<pql*< td=""></pql*<>
3	11	16	
4	11	1	<pql*< td=""></pql*<>
5	11	4,147	
6	11	1	
7	11	123	
8	11	5	<pql*< td=""></pql*<>
9	11	2	

^{*} Analyzed by modified EPA Methods 5030/8020/8015 in a State of California-certified laboratory

PQL for TPH = 1 ppm

PQL for BTEX = 1 ppm benzene

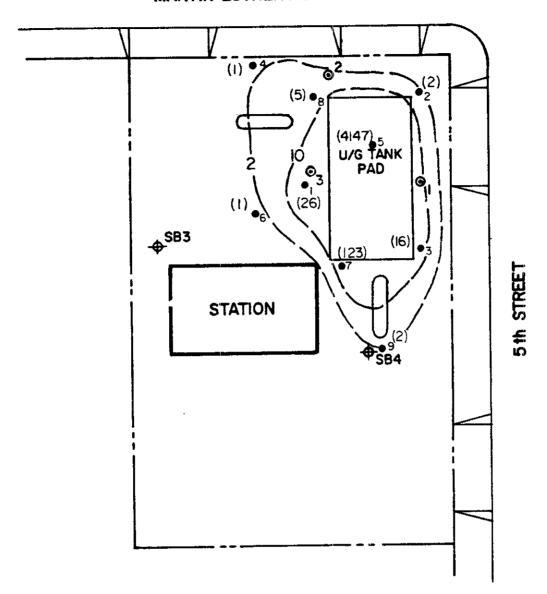
3 ppm toluene

4 ppm ethylbenzene

15 ppm xylenes

^{**} Analyzed by modified EPA Method 8015 in a State of California certified Mobile Laboratory.

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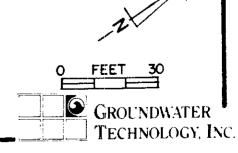


LEGEND

- O MONITORING WELL
- SOIL BORING
- SOIL-PROBE LOCATION
- () TVH CONCENTRATION (ppm)
- -- TVH CONTOUR

TVH AS GASOLINE IN SOIL (7/27/88)

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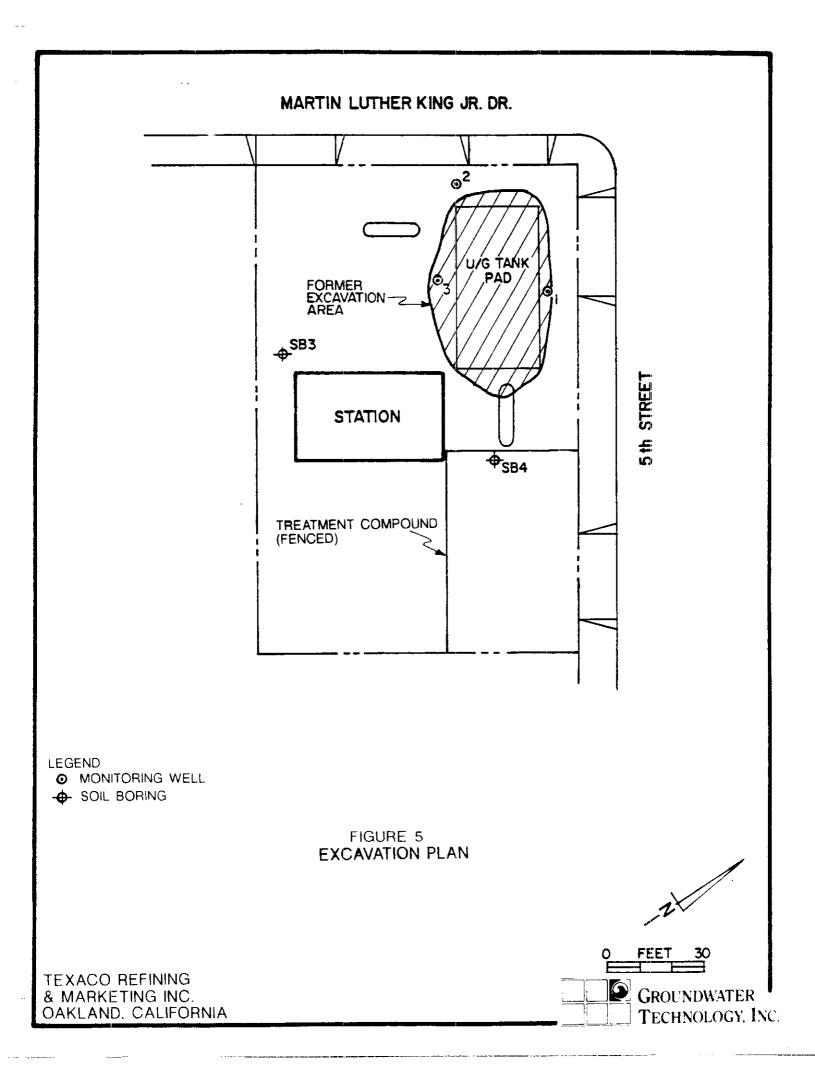
MONITORING WELL ABANDONMENT

Monitoring wells MW-1 and MW-3 were abandoned in accordance with the Groundwater Protection Ordinance Permit issued by Alameda County Flood Control and Water Conservation District on August 12, 1988 (Appendix D). Monitoring wells MW-1 and MW-3 were destroyed on August 15, 1988. Monitoring well MW-2, located downgradient from the planned excavation, was left intact to document the effectiveness of the remediation on groundwater quality.

SOIL EXCAVATION

Figure 5 represents the soil excavation area centralized around the former underground storage tanks. Soil was excavated to a depth of approximately 18 feet in the center of the excavation. Minor seepage of approximately less than 1 foot of water occurred into the excavation, although the monitoring wells had indicated a depth-to-water (DTW) of approximately 12-1/2 The two soil samples taken each day during the excavation were analyzed by modified EPA Methods 5030/8020/8015 for BTEX and TPH-as-gasoline. Soil samples were analyzed within 24 hours to record progress of the excavation. Appendix E contains the laboratory analyses reports for samples analyzed for BTEX and TPH during the excavation from December 13, through 15, 1988. Analytical results from all soil samples collected and analyzed during the excavation were less than PQL for all constituents of BTEX and TPH-as-gasoline.





EXCAVATION BACKFILLING AND COMPACTION

The excavation was backfilled on January 3, 1989. Rod mill pea gravel was watered and rolled into the excavation with a backhoe to a depth of 8-feet below grade. Field density tests were performed on January 3, 1989, and the results were found to be within the limit of at least 90 percent compaction. Imported, clean backfill soil was used as fill for the remaining 8 feet of the excavation pit. Compaction tests were completed by the onsite contractor. Appendix A contains the results of the compaction tests performed during backfilling. The backfilled excavation was left unpaved until the soil treatment pile was removed, and then the entire parking lot was repaved.

SOIL TREATMENT

On January 9 through February 1, 1989, the system for the aboveground aeration/biodegradation treatment was activated and service test data was collected for the Bay Area Air Quality Management District (BAAQMD). Table 2 presents the air monitoring data collected during the initial two week start up. From the data collected, an operation and monitoring schedule using a carbon breakthrough curve was generated. The permit to operate the system continuously was issued by the BAAQMD on March 23, 1989. The aeration/biodegradation system was then restarted on April 4, 1989. Table 3 presents the results of air monitoring during the operational period from April 4, 1989 to May 31, 1989.



TABLE 2
START-UP TEST DATA
(ppm)

DATE SAMPLED	VACUUM BLOWER EFFLUENT (ppm)	#1 CARBON DRUM EFFLUENT (ppm)	#2 CARBON DRUM* EFFLUENT (ppm)	FIELD TEST INSTRUMENT
01/10/89	275	210	190	PID
01/10/89	250	0	0	PID
01/11/89	260	1 50	10	PID
01/11/89	250	2	0	PID
01/12/89	240	150	7	PID
01/12/89	240	4	0	PID
01/13/89	230	120	3	PID
01/13/89	230	5	0	PID
01/16/89	222	3	0	PID
01/17/89	202	50	3	PID
01/17/89	202	О	0	PID
01/18/89	190	47	2	PID
01/18/89	190	0	0	PID
01/19/89	174	17	0	PID
01/20/89	158	48	3	PID
01/20/89	158	2	0	PID
01/25/89	120	70	50	PID
02/01/89	145	0	0	PID

^{*} After the initial carbon drum replacement a fresh carbon drum was rotated into the #2 carbon drum position to be subsequently rotated into the #1 carbon drum position.

PID = Photo-ionization Detector



TABLE 3
OPERATIONAL EFFLUENT AIR MEASUREMENTS
(ppm)

DATE SAMPLED	VACUUM BLOWER EFFLUENT (ppm)		#2 CARBON DRUM EFFLUENT (ppm)	FIELD TEST INSTRUMENT
4/04/89	60	0	0	PID
4/06/89	70	0	0	PID
4/11/89	50	<5	0	PID
4/13/89	160	12	2	FID
4/19/89	38	19	0	PID
4/21/89	35	10	0	PID
4/21/89	120	90	30	FID
4/24/89	38	32	15	PID
4/24/89	98	95	24	FID
4/26/89	95	18	0	FID
5/01/89	26	13	0	PID
5/05/89	22	10	0	PID
5/09/89	12	6	0	PID
5/12/89	16	16	5	PID
5/18/89	12.0	2.0	0	PID
5/26/89	12	10	0	PID

PID = Photo-ionization detector

FID = Flame-ionization

The system was operated from April 4, 1989 to May 31, 1989. Because the carbon canister closest to the blower effluent line (carbon canister 1) exceeded breakthrough, the canister was replaced. Carbon canister 2 replaced carbon canister number 1 and a fresh carbon canister was used to replace carbon canister 2. This switching and replacing of carbon canisters continued until the soil pile TPH values had fallen to below measurable levels.

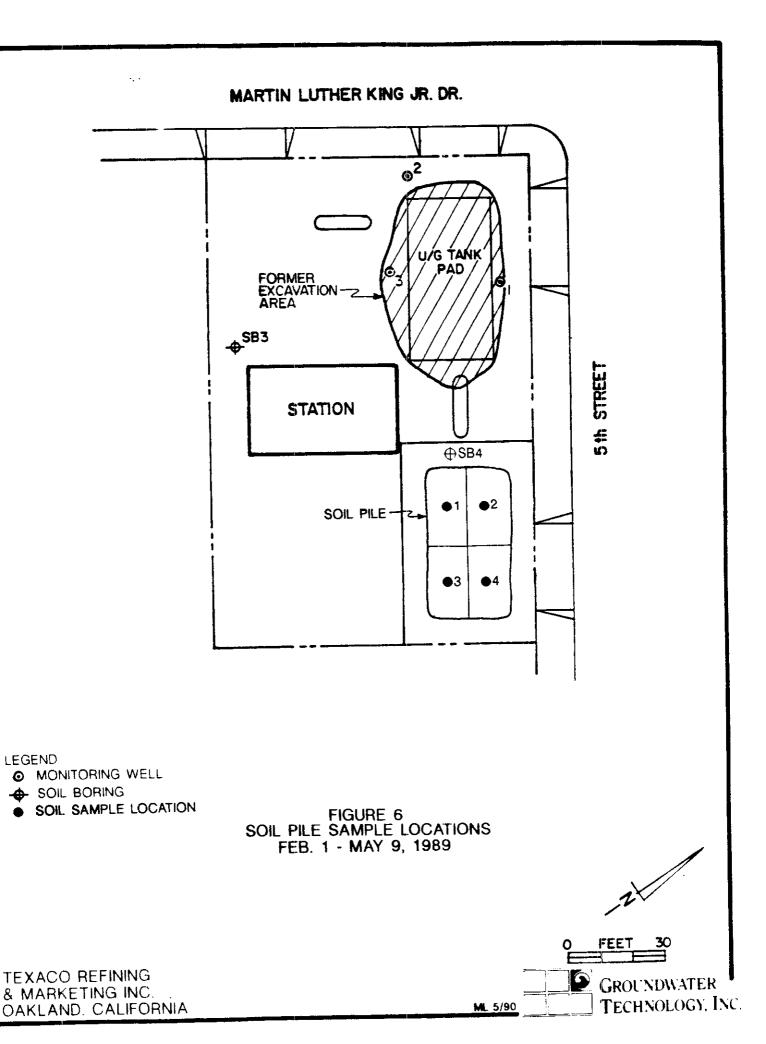
SOIL SAMPLING

Four soil samples were collected on February 1, 1989, after the initial system start up (Figure 6). Results of these preliminary soil analyses showed a range for TPH-as-gasoline of 140 parts per million (ppm) to 1,500 ppm and a range for BTEX from 3 ppm to 160 ppm. Four more soil samples were collected on May 9, 1989. Analyses results showed that these soil samples contained from 18 ppm to 530 ppm of TPH-as-gasoline without constituents of BTEX present. On May 31, 1989, ten soil samples were collected using a grid system to divide the soil treatment pile into ten equal areas for sampling (Figure 7). Analytical results from these samples showed all soil samples collected to be below Practical Quantitation Levels (<PQL) for BTEX. Results indicated that two of the soil samples had small amounts of residual TPH-as-gasoline of 13 ppm and 590 ppm. The soil pile was resampled in the suspected area on June 22, 1989 and found at that time to contain only 2 ppm TPH-as-gasoline. summarizes the soil pile analyses results from February 1, through June 22, 1989, soil sample collections.

Additional soil analyses for the presence of organic lead were conducted on soil samples collected on May 31, 1989 and June 22, 1989. All results for organic lead were less than the Method Detection Limit (MDL). Results of these soil analyses are presented in Appendix F.

SOIL REMOVAL

Soil was removed from the treatment site to the Durham Road Landfill in Fremont on September 13, 1989. The site was cleaned and, on request of the present owner, the entire parking lot was repayed. The temporary security fence was removed from the site.



MARTIN LUTHER KING JR. DR. FORMER EXCAVATION 2 PAD SB3

STATION

SOIL PILE-

5th STREET

⊕SB4

•3

•5

•4

●6

●8

LEGEND

- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION

FIGURE 7 SOIL PILE SAMPLE LOCATIONS MAY 31 - JUNE 22, 1989

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TABLE 4
SOIL PILE SAMPLE ANALYSIS

SAMPLE I.D.	DEPTH (ft.)	BENZENE	TOLUENE	ETHYL BENZENE	XYLENE	TPH-AS- GASOLINE
Februai	ry 1, 198	89				
1	3.5	<pql< td=""><td><PQL</td><td><pql< td=""><td><pql< td=""><td>140</td></pql<></td></pql<></td></pql<>	<PQL	<pql< td=""><td><pql< td=""><td>140</td></pql<></td></pql<>	<pql< td=""><td>140</td></pql<>	140
2	3.5	3	22	22	110	1,500
3	3.5	<pql< td=""><td><PQL</td><td><pql< td=""><td><pql< td=""><td>180</td></pql<></td></pql<></td></pql<>	<PQL	<pql< td=""><td><pql< td=""><td>180</td></pql<></td></pql<>	<pql< td=""><td>180</td></pql<>	180
4	3.5	<pql< td=""><td><pql< td=""><td><pql< td=""><td>21</td><td>1,200</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>21</td><td>1,200</td></pql<></td></pql<>	<pql< td=""><td>21</td><td>1,200</td></pql<>	21	1,200
May 9	, 1989			1		
1	5-7	<pql< td=""><td>9</td><td><pql< td=""><td><pql< td=""><td>80</td></pql<></td></pql<></td></pql<>	9	<pql< td=""><td><pql< td=""><td>80</td></pql<></td></pql<>	<pql< td=""><td>80</td></pql<>	80
2	5-7	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>530</td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>530</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>530</td></pql<></td></pql<>	<pql< td=""><td>530</td></pql<>	530
3	5-7	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>1.8</td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>1.8</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>1.8</td></pql<></td></pql<>	<pql< td=""><td>1.8</td></pql<>	1.8
4	5-7	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>250</td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>250</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>250</td></pql<></td></pql<>	<pql< td=""><td>250</td></pql<>	250
May 3	1, 1989					
1	2	<pql< td=""><td><pql< td=""><td><pql< td=""><td><PQL</td><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><PQL</td><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><PQL</td><td><pql< td=""></pql<></td></pql<>	<PQL	<pql< td=""></pql<>
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GROUNDWATER MONITORING

Groundwater monitoring data for monitoring well MW-2, as well as the previous tabulated data, are presented in Appendix G. Monitoring wells MW-1 and MW-3 were abandoned prior to the soil excavation. Figure 8 presents a past potentiometric surface map that generally indicates historical gradient direction towards MW-2.

GROUNDWATER SAMPLE RESULTS

Analytical results for the groundwater sample collected from monitoring well MW-2 on February 1, 1989, indicated 8 ppb of TPH-as-gasoline without BTEX constituents. The analytical results for the May 12, 1989 groundwater samples from monitoring well MW-2, including the rinsate blank, were <PQL for TPH-as-gasoline and BTEX constituents. Analytical results from the March 28, 1990 sampling event indicate levels of TPH-as-gasoline and BTEX constituents were below the detection limits of 1 ppb and 0.5 ppb, respectively. Laboratory analytical reports and the Chain-of-Custody Manifests are presented in Appendix H.

SUMMARY

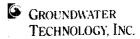
A soil sample survey was conducted with a mobile laboratory to define the hydrocarbon-impacted soil boundaries. Two monitoring wells within the defined boundary of hydrocarbon-impacted soil were abandoned. Approximately 1,000 cubic yards of hydrocarbon-impacted soils were excavated for the construction of a soil pile utilizing an enhanced bioremediation system including forced soil aeration. The soil pile was sampled for the presence



MARTIN LUTHER KING JR. DR. (86.57)_@2 86.60 86.80 8700 87.20 U/G TANK 87.40'-PAD (87.41) 3 (87.51') G GRADIENT DIRECTION ⊕^{SB3} STATION LEGEND FIGURE 8 GROUNDWATER GRADIENT MAP **O** MONITORING WELL - SOIL BORING (7/27/88)() GROUNDWATER ELEVATION - GROUNDWATER CONTOUR **TEXACO REFINING** & MARKETING INC. OAKLAND, CALIFORNIA TECHNOLOGY, INC.

Texaco/Martin Luther King, Jr. Way June 1990

of hydrocarbons remaining within the soil pile to verify the progress of the bioremediation. The clean soil pile was removed from the site to a landfill. The parking lot under the soil pile, as well as the compacted fill soil in the excavation were repaved. One remaining groundwater monitoring well located downgradient was sampled for the presence of hydrocarbons. Analytical results of groundwater samples collected in May 1989 and March 1990 have shown no detectable hydrocarbons.



BAY AREA Geofechnien (Group 950 Industrial Dec., PARO Alto, CALF (415) 852-9133

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950 INDUSTRIAL AVE. PALO ALTO, CA 94303

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### BAY AREA AIR QUALITY MANAGEMENT DISTRICT

			PERMIT T	O OPERATE	NO. <u>18</u>	31		
							PLANT NO	3773
			Gro	undwater '	<u>Technol</u>	ogy, Inc.		
IS HER	REBY	GRANTED	A PERMIT TO	OPERATE TH	IE FOLLOW	'ING EQUIPM	ENT: SOURC	E NO. 1
Abov HF	re-Gr P, 12	7 CFM aba	ated by A-1.	gradation, Ol Activated Ca ranular activa	rbon, Can	neron-Yakir	ma, inc. "Tub	32008, 1.5 Scrub",
LOCAT	ED A	Т:	42	4 Martin Luth	er King Jr	. Drive		
				Oakland,	CA 94607	7		
CONDI		S: 🗹 YES						
1.	This	source sha	ll not discharg	ge into the atm le organic com	osphere mo	re than 300 p Cliner day	pm carbon on	a dry basis or
2.	To	determine co	mpliance with	n condition 1, th	e operator o	of this source	shall:	
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EXPI	RATI	ON DATE:	November	9, 1990	_	FERIVITI :	OUNTIOES DIV	- <del> </del>
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THE BAAQMD OR THE HEALTH & SAFETY CODE OF THE STATE OF CALIFORNIA.

FORM P-103 8/89

#### SOIL BORING ANALYSIS TEXACO - Martin Luther

Job No. 203 150 4314

Sensitivity factor = .0003 ND = Not Detectable

Hole &	Depth	GC	Peak			TVH
Sample #	(ft _. )	Run	Height	Scale	Mult	(ppm)
1	8.5	3	275	8	1	26
2	8.5	5	20	8	1	2
3	11	7	170	8	1	16
4	11	8	13	8	.1	1
5	11	11	270	128	10	4147
6	11	13	15	8	1	1
7	11	14	<b>3</b> 20	32	1	123
8	11	15	<b>5</b> 5	8	1	5
9	11	16	20	8	1	2

Collected with mini-soil core tube





ivision of Groundwater Technology, Inc.

Western Region 4080-C Pike Lane Concord, CA 94520

(415) 685-7852

(800) 544-3422 from inside California (800) 423-7143 from outside California Page 1 of 1

08/05/88 aa

CLIENT: Lynn Pera

Groundwater Technology, Inc.

4080 Pike Lane

Concord, CA 94520

PRDJECT#: 203-199-4314-7

SAMPLED: @7/27/88

BY: B. Schaal

RECEIVED: 07/29/88

BY: K. Fillinger

ANALYZED: 08/03/88

BY: E. Popek

MATRIX:

Soil

TEST RESULTS

UNITS: ppm

	ILAB #	1	28135	1	28136	ı	28137	1		1
COMPOUNDS	I.D.#	; 	5-8 		S-4		5-2	 	! 	ا 
	¥									
Benzene			( PQL		( PQL		( PQL			
Toluene			( PQL		( PQL		( PQL			
Ethylbenzene			< PQL		( POL		( PQL		-	
Xylenes			( PQL		( POL		( PQL			
Total BTEX			( PQL		( PQL		( PQL			
Total Petroleum Hydrocarbons as Gasoline			( PQL		( PQL		( PQL			

Results rounded to two significant figures.

PGL = Less than Practical Quantitation Levels as per EPA Federal Register,
November 13, 1985, page 46906.

METHOD:

Modified EPA Method 5030/8020/8015

SAFY KHALIFA, Ph.D., Director

**Environmenta** 4080-C Pike Ln., Concord, CA 94520 Laboratories D

A devision of Groundwater Technology, Inc. (415) 685-7852 in CA: (800) 544-3422 Outside CA: (800) 423-7143 The Mach 10000 Chesto MEOH Z 7.29.8B 10.70 sod S8: 16ta suil 100 メタルナ 53:6.89 HECK ANALYSIS TYPE REQUESTED REMARKS PHONE NO. 136X METALS

D B/W

D B/WA

D B/WA

D B/WA

D B/WA

D B/WA Concard CLIENT NAME/OFFICE LOCATION D 624 D 601

SOT A HSL D 602

EPA 625 A SLES BY

TO BAN D ACIDS BA EDY HAZE PROJECT MANAGER Lynn Pera SASOLENE SPOROCHHBONS BY SPOROCHHBONS BY STH STH OSO, × ACIDIFIED Received by laboratory INIL 7.74 1555 4.27 1430 1-711650 STAG Received by: Received by 8445 X × COMP SOURCE PROJECT NAME CONCORD 10.75 Tine Time J-21-08 10:20 O3S SAMPLERS: (Signatury) polotor YOS <u>کن</u> ス Date Date MATER 30 TWO 0 9 Aid Selection Se Relinquished by Relinquished by: SAMPLE I.D. NUMBER St 52 3

j

CHAIN-CI-CODICOI MECCHO AND ANALYSIS RECOFNI

Western Region



# ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DETRIES

FOR APPLICANT TO COMPLETE

5997 PARKSIDE DRIVE . PLEASANTON, CALIFORNIA 94568 . 415 4445 .

FOR OFFICE USE

## GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

LOCATION OF PROJECT 424 Martin Luther	PERMIT NUMBER 88403
King Jr. Drive, Oakland, CA	LOCATION NUMBER 15/4W 34F80, 34F81, 34F82
(2) CLIENT  Nome Texas: Retining and Marketing Inc.  Address IC Universit City Phien Phone EIE - 505-247  City Universit City CA ZIP 91603	Approved Wyman Hong Date 12 Aug 88
APPLICANT	PERMIT CONDITIONS
Name Grandwitt Technology Inc.	Circled Permit Requirements Apply
Address 4CSC Pike Line # D Phone(415) 671-23 City Concord, CA Zip 9452C	
DESCRIPTION OF PROJECT Water Well Construction Geotechnical Cathodic Protection Well Destruction	<ol> <li>A permit application should be submitted so as the arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>Notify this office (484-2600) at least one days</li> </ol>
) PROPOSED WATER WELL USE  Domestic Industrial Irrigation  Municipal Monitoring Other	prior to starting work on permitted work an before placing well seals.  3. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report of
Drilling Method:  Mud Rotary Air Rotary Auger  Cable Other	equivalent for well projects, or bore hole log and location sketch for geotechnical projects Permitted work is completed when the last surface seal is placed or the last boring is completed.  4. Permit is void if project not begun within S
WELL PROJECTS (To Be Destroy.i)  Drill Hole Diameter & In. Depth(s) 30 f  Casing Diameter 2 in. Number  Surface Seal Depth 5 ft. of Wells 3  Driller's License No. 434343	days of approval date.  t. B. WATER WELLS, INCLUDING PIEZOMETERS  1. Minimum surface seal thickness is two inches comment grout placed by tremie, or equivalent.  2. Minimum seal depth is 50 feet for municipal articles industrial wells or 20 feet for domestic, irrige
GEOTECHNICAL PROJECTS  Number  Diameter in. Maximum Depth 1	tion, and monitoring wells unless a lesser dept is specially approved.  The Confidence of the compacted of t
estimated completion date \$/22/88	pacted material.  D. CATHODIC. Fill hole above anode zone with concret placed by tremie, or equivalent.
<ol> <li>I hereby agree to comply with all requirements this permit and Alameda County Ordinance No. 73-68.</li> </ol>	of E. WELL DESTRUCTION. See attached.
APPLICANT'S John & Pera Date 8/11/8	



(415) 685-7852

4080-C Pike Lane, Concord, CA 94520

TEST RESULTS

(800) 544-3422 from inside California (800) 423-7143 from outside California

12/17/88 Jp Page 1 of 1

WORK ORD#:8812177

CLIENT: Lynn Pera

Groundwater Technology, Inc.

4080 Pike Lane

Concord, CA 94520

PROJECT#: 203-199-4314-8

LOCATION: Dakland & Martin Luther Way

SAMPLED: 12/13/88

BY: D. Drury

RECEIVED: 12/13/88

BY: K. Biava

ANALYZED: 12/15/88

BY: P. Hanners

MATRIX: Soil

UNITS: mg/kg (ppm)

PARAMETER	ISAMPLE #   	   	01A 1A	l	<b>0</b> 2A 2A	i	ŀ	1	 
Benzene			(POL		(PQL		<u></u>		
Toluene		•	(PQL		(PQL				
Ethylbenzene			(PQL		(PQL				
Xylenes			(PQL		(PQL				
Total BTEX			(PQL		(PQL				
Total Petroleum Hydrocarbons as Gaspline			(PQL		(PQL				

PGL = Less than Practical Quantitation Levels per EPA Federal Register, November 13, 1985, page 46906. Results rounded to two significant figures.

METHOD:

Modified EPA Method 5030/8020/8015



(415) 685-7852

4080-C Pike Lane, Concord, CA 94520

(800) 544-3422 from inside California

(800) 423-7143 from outside California

12/19/88 Jp Page 1 of 1

WDRK DRD#:8812201

CLIENT: LYNN PERA

GROUNDWATER TECHNOLOGY, INC.

4080-D PIKE LANE

CONCORD, CA 94520

PROJECT#: 203-199-4314-9

LOCATION: GTI - CONCORD

SAMPLED: 12/14/88

BY: D. Drury

RECEIVED: 12/15/88

BY: E. Larsen

ANALYZED: 12/15/88

BY: P. Hanners

MATRIX: Soil

UNITS: mg/Kg (ppm)

PARAMETER	1	ISAMPLE #	101 13A	102 13E		   	   	; ; ;
Benzene				(PQL	(PQL			
Toluene				(PGL	(PQL			
Ethylbenzene				(PQL	(PQL			
Xylenes				(PQL	(PQL			
Total BTEX				(PQL	(PGL			
Misc. Hydrocarbo	DYIS			(PGL	<p&l< td=""><td></td><td></td><td></td></p&l<>			
(D4-D12)				(PGL	(PQL			
Total Petroleum Hydrocarbons as Gasoline				(PQL	(PQL			

Results rounded to two significant figures.

PQL = Less than Practical Quantitation Levels as per EPA Federal Register, November 13, 1985, page 46906.

METHOD: Modified EPA 5030/8020/8015

EMMA P. POPEK, Director



(415) 685-7852

12/21/88mt

Page 1 of 1 WORK ORD#:8812233

Lynn Pera/Amy Pattor: CLIENT:

Groundwater Technology, Inc.

4080 Pike Ln., Suite D

Concord, CA 94520

PROJECT#: 203-199-4314-10

LOCATION: Martin Luther King Jr. Way

SAMPLED: 12/15/88

BY: D. Drury

RECEIVED: 12/15/88

BY: C. Manuel

ANALYZED: 12/16/86

BY: P. Hanners

MATRIX: Soil

TEST RESULTS

4080-C Pike Lane, Concord, CA 94520

(800) 544-3422 from inside California

(800) 423-7143 from outside California

UNITS: ppm

PARAMETER	ISAMPLE #   	01A 4A	ł i	02A 4B	1	1	   	
Benzene		(PGL		(PQL				
Toluene		(PQL		(PQL				
Ethylbenzene		(PQL		(PQL				
Xylenes		(PGL		(POL				
Total Petroleum Hydrocarbons as Gasoline		(PGL		(PQL				

POL = Less than Practical Quantitation Levels per EPA Federal Register, November 13, 1985, page 46906. Results rounded to two significant figures.

METHOD:

Modified EPA Method 5030/8020/8015

EMMA P. POPEK, Director



4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

(800) 544-3422 from inside California

(800) 423-7143 from outside California

Page 1 of

21/14/89 re

DLIENT: Lynn Pera/Amy Pattor

Groundwater Technology, Inc.

4080-D Pike Lame Densora, DA 94520

PROJECT#: 202-199-4314-11

SAMPLED: 12/15/55

BV: D. Deury

RECEIVET: 12/15/89 PNA: YZEI: 01/12/89

EY: I. Manuel BY: T. Alusi

MATRIX: Soil

F. Faines

TEST RESULTS

UNITS: mg/4g

MOL ISOMOLE # 1 25630 | 35631 ! 35632 M3

*: 1 Mi HI.I. PEROMETER

2.18 2.0T 0.09 Annohise (194) 0.05

/ <del>*</del> (1 Phosphate

MDL = Method Detection Limit: compound below this level would not be detected.

METHOD:

Phosphate - SM 428

Associum - SM 417E

EMMA P. POFEM, Director

nna P. Rojen

EQUEST	SPECIAL	CIEV	( <b>8ys</b> ) (392	SERVICE (2-4 TION LIM	DETEC	EXPEDIT VERBALS SPECIAL	¥	¥								10-5		
CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST	ОТИЕВ									 <i>(5)</i>	/h	1/2	<u> </u>			- Lungya		
AND AN			SĮE	steM Indit	ilog ytho					<u> </u>	To the state of th		)			74-hc		
ECORD	<b>1</b>				S270 Metais	EbV ess/										- 490		
тору в	REQUEST			VInO 28	0808 9080-PC	Eby 608/8 Epy 608/8 Epy 608/8										Remarks:		
OF-CUS	ANALYSIS	(	f.814) an	(413S)	i Grease H muelo	8 IIO letoT 8 IIO letoT presquence 9/108 AR3										Ren		
CHAIN	AN	(5)	((	15 or 8270 758 % 21	08) <del>l</del> ese 08) leutt	HQT/X3T8 iQ as HQT eL as HQT a liO letoT	×	*										3
					(0208/	S09) X3T8								_				12 5
CA) Itslde CA)			ر ر	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Sampling	BTA0 BMIT	क्य धरा	1:13 1/00	7									Laboratory
800-544-3422 (in CA) 800-423-7143 (Outside CA)	er.		e: /3/4	r Signature:	Method Preserved	NONE OTHER	) <del>'</del>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								Received by:	Received by:	Received by L
	- € 2 : # Buoyd	FAX #:	Project Name:	Sampler Signature	Met	OTHER HCI HNO3	1									Rece	Rece	R
ke Lane .CA 94520 852	ā.	14	P (0.5	S. [Vay	Matrix	SOIL SOIL		>						-		Time	Time	e Time
4080-C Pike Lane Concord, CA 94520 415-685-7852	; ; ;		-9	1x Luiller	Junor	# CONTEIL WATER										Date	Date	Date
		1	T./concor	lant Mes	4											<b>y</b> :		× 1
ENVIRONMENTAL	Project Manager:	Address: Corol	Project Number:	Project Location: Ocle land Mrtsululer 1204		Oll	<	V	E							Relinquished by:	Relinquished by	Relinquished by

20tc 2Ci-	OTHER SPECIAL HANDLING	GASOIEY)	ONE SERVICE (2-4 d XA: ETECTION LIMIT	EXPEDITED VERBALS/F	×	×						>	·
CHAIN-OF-CUSTODY RECORD AND ANALYSIS	ANALYSIS REQUEST	((1.814) 2r	as Gasoline (602/ sel (8015 or 8270) uel (8015 or 8270) Grease (413.1) Grease (413.2) 110 120 120 120 120 120 120 120 120 120	TPH as Diess Total Oil & C Total Oil & C Total Petrole EPA 608/803	×	<u></u>					Remarks:	Ent b	Half CYC
4080-C Pike Lane Concord, CA 94520 800-544-3422 (in CA) 415-685-7852 800-423-7143 (Outside CA)	Phone #: X 2 3 7	FAX#: Project Name:	Sampler Signature:  Method Sampling	JTAG TIME	0x2 h1·21 X	00.74 7-1-1					Date Time Received by:	Date Time Received by:	Date Time Received by Laboratory:    2
GTEL GIVESONELIAL LANCE LANCE LINC	Project Manager:	2 5 5	Project Location: Markin Luther King	Sample Lab #	3A OIA	36 UZ.A					Relinquished by:	Relinquished by	Relinquished by

800-544-3422 (In CA) CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 800-423-7143 (Outside CA)	ANALYSIS REQUEST A OTHER SPECIAL HANDLING	(SIEY)	12 (SEE	100 FIMI 100 FIMI 200	Method  Sampling  Sampling	HUO3 ICE ONHER TOME TOME TOME TOME TOME TOME TOME TOME	X	X 55.7				· · · · · · · · · · · · · · · · · · ·		Received by:	Received by:	
	Phone #:	FAX #:	Project Name:	Sampler Signature.		NONE ICE HAGS OTHER SCUDGE										
4080-C Pike Lane Concord, CA 94520 415-685-7852	20		201/67	11.	. Junou	# CONTAIN  TOUITHER  WATER  SOIL  RIA	×	X						Date Time	Date Time	
GALLES INC.			Project Number:				W17	4.8						Relinquished by:	Relinquished by	

# CHAIN-OF-CUSIUDY HECUND AND ANALYSIS REAUES!

	GROUNDWAITER TECHNOLOGY INC. BIORECLAMATION LABORATORY  (Ital by letter) See below (Ital by letter) Se								Co (41	uite B oncord, CA 94520 15) 671-2387 ax No. (415) 685-9148					
E REQUESTED			/ REMARKS	<	(;;)		,							CHEMISTRY:  CAAA Ammonium  CAAA Ammonium  BB Nitrate  NN Bodium  I 13/89  CC Nitrite  DD Total Hardness  CC Nitrite  DD Total Hardness  CC Nitrite  NN Potassium  I Sulfate  CC Nitrite  OO Alkalinity  EE Calcium  OO Alkalinity  PP PH/Eh  FF Magnesium  OO Total Dissolved Solids  GG Total Iron  BR Total Suspended Solids  II Sulfate  UU Dry Weight/Moisture Content  KK Manganese  VY Specific Gravity  OFFICE  CACAAA  A35 Phosphate  UU Dry Weight/Moisture Content  KK Manganese  VY Specific Gravity  OFFICE  CACAAA  A35 Phosphate  UU Dry Weight/Moisture Content  KK Manganese  VY Specific Gravity  OFFICE  CACAAAA  CALFAAA  OFFICE  CACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Satisface increase united and occasionated for accounting to the conformation of conforming to these requirements in the GRI (DACC) plan with so incoorsing with project managers approval and assumption of responsibility.
CHECK ANALYSIS TYPE	(-f) S	CHEMISTRY	(List by letter)	111 55		1A 55				·			And the second s	CHEMISTRY:  (AA) Ammonium  CL C  BB Nitrate  CC Nitrite  DD Total Hardness  CC Nitrite  DD Total Hardness  PP p  FF Magnesium  OO Total Hardness  NN P  CAST TOTAL  SURFACE TOTAL  OU D  KK Manganese  OU D  KK	and with project managers approval and assume
	TYPE OF CON	WICEOEIOLOGY			() C	90								ria (qualitative ducers ducing Bacter etes lists, molds)	
ME. /	i costa I	1 1 3 1	JANI JANI	17. A 21.00	co.2 9.0	C. 5 2.51								+0 BO POZELK	RECEIVED BY LABOHAIOHY.
PAC	2	1 8	ANIMINOS 1108	>	<b>&gt;</b>	*								GY:  d Plate Count  Enrichment Count  ribon Utilizers  component Organic Utilizers  Substrate Utilizers  liforms  oliforms  cteria (quantitative)	DATE. C. S
PROJECT NUMBER.	SAMPLERS (Signature)	The Mark	SAMPLE I D.	170,000	1. 1. 2.									MICROBIOLOGY: A Standard Plate (B) Nutrient Enrich C: Hydrocarbon U D Chlorinated Sol E Single Compon F Mixed Organic G Special Substra H Total Coliforms J Fecal Coliforms J Iron Bacteria (	RELINOUISHED BY

4080 Pike Lane



(415) 685-7852

4080-C Pike Lane, Concord, CA 94520

(800) 544-3422 from inside California

(800) 423-7143 from outside California

82/14/89mt

Page 1 of 1

WORK ORD#:8902042

CLIENT:

LYNN PERA GROUNDWATER TECHNOLOGY, INC.

4080-D PIKE LANE

CONCORD, CA 94520

PROJECT#: 203-199-4314-13

LOCATION: MOUNTAIN LUTHER KING DRIVE

SAMPLED: 02/01/89

BY: D. KAUFMAN

RECEIVED: 02/02/89

BY: P. HANNERS

MATRIX: Soil

ANALYZED: 02/06/89

UNITS: mg/Kg (ppm)

PARAMETER	ISAMPLE # I	01   SS-1	<b>6</b> 2   SS-2	<b>6</b> 3   \$5-3	04 SS-4	
Benzene		(PQL	3	(PQL	(PQL	
Toluene		(PQL	52	(PQL	(PQL	
Ethylbenzene		(PQL	<b>2</b> 2	(PQL	(PQL	
Xylenes		(PQL	110	(PQL	21	
Total BTEX		(PQL	160	(PQL	21	
Total Petroleum Hydrocarbons as Gasoline		140	1500	180	1200	

(PQL = Less than Practical Quantitation Levels per EPA Federal Resgister,

November 13, 1985, page 46906.

Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

EMMA P. POPEK, Laboratory Director



Concord, CA 94520

(800) 544-3422 from inside California (800) 423-7143 from outside California

4080 Pike Lane

(415) 685-7852

05/17/89MT

Page 1 of 1

WORK DRD#: C905244

LYNN PERA CLIENT

GROUNDWATER TECHNOLOGY, INC.

4080-D PIKE LANE

CONCORD, CA 94520 PROJECT#: 203-199-4314-14

LOCATION: MARTIN LUTHER & 5TH STREET

SAMPLED: 05/09/89

BY: D. KAUFMAN

RECEIVED: 05/10/89

ANALYZED: 05/41/89

BY: K. PATTON

MATRIX:

Soil

UNITS:

mg/Kg (ppm)

PARAMETER	ISAMPLE II.D.	# 1	01   S5#1	85#2   82	93 i 55#3 i	Ø4 85#4	1
Benzene	8 گاست که سایت یو پی رق رق بای شاهدید.		(PQL	(PQL	(PQL	(PQL	- 
Toluene		•	(PGL	(PQL	(PGL	(PGL	
Ethylbenzene			(PGL	(PQL	(PQL	(PQL	
Xylenes			(PQL	(PQL	(PGL	(PGL	
Total BTEX			(PQL	(PQL	(PQL	(PGL	
Total Petroleum			80	530	18	250	
Hydrocarbons es Gasoline							

(PGL = Less than Practical Quantitation Levels per EPA Federal Resgister, November 13, 1985, page 46906.

Results rounded to two significant figures.



Concord. CA 94520

(800) 544-3422 from inside California

(800) 423-7143 from outside California

4080 Pike Lane

(415) 685-7852

06/07/89 MH

Page 1 of 2

WDRK DRD#:0906031

CLIENT: LYNN PERA

GROUNDWATER TECHNOLOGY, INC.

4880-D PIKE LANE CONCORD, CA 94520

PROJECT#: 203-199-4314-16

LOCATION: MARTIN LUTHER KING JR.

SAMPLED: 05/31-06/89 BY: D. KRUFMAN

RECEIVED: 06/02/89

ANALYZED: 06/06/89

BY: K. PATTON

MATRIX:

Soil

UNITS:

mg/Kg (ppm)

PARAMETER	ISAMPLE #   	Ø1 1	1	<b>8</b> 2	1	<b>9</b> 3 4	1	<b>0</b> 4 5	 	<b>8</b> 5 6	í
Benzene		(P(	3L	(PQL	<del>-</del>	(PQ	L	(PQ	 L	(PQ	L
Toluene		(P(	3L	(PQL	•	(PG)	L	(PG	L	(PQ	L
Ethylbenzene	,	(P(	<b>D</b> L	(PQL	-	(P0	L	(PQ	L	(PG	L
Xylenes		(P(	3L	(POL	-	(PQ	L	(PQ	L	(PQ	:L
Total BTEX		{PI	<b>D</b> L	(PQL	-	(PQ	L	(PG	L	(PQ	IL
Total Petroleum Hydrocarbors as		(Pi	<b>B</b> L	(PQL	-	(PQ	L	(PG	L	(PQ	IL
Rasoline											

(PQL = Less than Practical Quantitation Levels per EPA Federal Resgister, November 13, 1985, page 46906.

Results rounded to two significant figures.



Northwest Region
4080 Pike Lane
Concord. CA 94520
(415) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California

Page 2 of 2

WORK ORD#: C906031

CLIENT: LYNN PERA

PROJECT#: 203-199-4314-16

LOCATION: MARTIN LUTHER KING JR.

MATRIX:

Soil

UNITS: mg/Kg (ppm)

PARAMETER	ISAMPLE #	1	<b>0</b> 6 8	   	<b>0</b> 7 9	l l	08 10		1	† 
Benzene			(PQL		(PQL		(PGL			
Toluene			(POL		(PQL		(P@L			
Ethylberizene	•		(PQL		(PQL		(PQL			
Xylenes			(POL		(PQL		(POL			
Total BTEX			(PBL		(PQL		(POL			
Total Petroleum Hydrocarbons as Gasoline			(PQL		13	3	590	,		

(PQL = Less than Practical Quantitation Levels per EPA Federal Resgister,

November 13, 1985, page 46906. Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

OMMA P. Polle EMMA P. POPEK, Laboratory Director



4080 Pike Lane Concord. CA 94520

(415) 685-7852

LABORATORIES, INC.

(800) 544-3422 from inside California (800) 423-7143 from outside California

06/07/89 JP

Page 1 of 2

WORK ORD#: C906032

LYNN PERA CLIENT:

BROUNDWATER TECHNOLOGY, INC.

4080-D PIKE LANE

CONCORD, CA 94520

PRDJECT#: 203-199-4314-7

LOCATION: MARTIN LUTHER KING JR

SAMPLED: 05/31-06/89

BY: D. KAUFMAN

RECEIVED: 06/02/89

ANALYZED: 06/06/89

BY: J. THOMAS

MATRIX: Soil

UNITS: mg/Kg (ppm)

	1	MDL	ISAMPLE	# 1	<b>Ø</b> 1	ı	<b>0</b> 2	ı	<b>0</b> 3	ŀ	04	ł	<b>Q</b> 5	i
PARAMETER	i	,,,,,	II.D.	1	1	1	2	1	4	l	5	I	€	ļ
L Little in the interior	-													

Lead (organic)

**0.** 25

(0.25

(0.25 (0.25 (0.25

(0.25

MDL = Method Detection Limit; compound below this level would not be detected. Results rounded to two significant figures.

METHOD: per California DHS



Northwest Region 4080 Pike Lane Concord. CA 94520 (415) 685-7852 (800) 544-3422 from inside California (800) 423-7143 from outside California Page 2 of 2

WORK ORD#: C906032

CLIENT:

LYNN PERA

PROJECT#: 203-199-4314-7

LOCATION: MARTIN LUTHER KING JR

MATRIX:

Soil

UNITS: mg/Kg (ppm)

		MDL	ISAMPLE	# 1	<b>0</b> E	<u> </u>	07		<b>0</b> 8	!	1
PARAMETER	Ì		1 I.D.	I	8	1	9	ł	10	 	

Lead (organic)

0.25

(0.25

(0.25

⟨₽.25

MDL = Method Detection Limit; compound below this level would not be detected. Results rounded to two significant figures.

METHOD: per California DHS



4080 Pike Lane Concord. CA 94520 (415) 685-7852

(800) 544-3422 from inside California (800) 423-7143 from outside California

06/29/89 MH

Page 1 of 1

WORK ORD#:C906478

CLIENT: LYNN PERA

GROUNDWATER TECHNOLOGY, INC.

4080-D PIKE LANE

CONCORD, CA 94520

PROJECT#: 203-199-4314-18

LOCATION: DAKLAND, CA

SAMPLED: 06/22/89

BY: C. ROBERTSON

RECEIVED: 06/22/89

ANALYZED: 06/26/89

BY: K. PATTON

MATRIX: Soil

UNITS: mg/Kg (ppm)

PARAMETER	ISAMPLE # 1 01   II.D.   SEC 10	1	1	[	
Benzene	(PQL				
Tolvene	(PQL				
Ethylbenzene	(PQ!_				
Xylenes	(POL				
Total BTEX	⟨₽Q <u>!</u> _				
Total Petroleum Hydrocarbons as Gasoline	2				

(PQL = Less than Practical Quantitation Levels per EPA Federal Resgister,

November 13, 1985, page 46906.

Results rounded to two significant figures.



ENVIRONMENTAL LABORATORIES, INC.

**Worthwest Region** 

4080 Pike Lane Concord. CA 94520

(415) 685-7852

(800) 544-3422 from inside California (800) 423-7143 from outside California

06/23/89 JP

Page 1 of 1

WORK ORD#: 0906479

CLIENT:

LYNN PERA

GROUNDWATER TECHNOLOGY, INC.

4080-D PIKE LANE

CONCORD, CA 94520

PROJECT#: 203-199-4314-19

LOCATION: DAKLAND, CA

SAMPLED: 06/22/89

BY: C. ROBERTSON

RECEIVED: 06/22/89

ANALYZED: 06/22/89

BY: M. ISKANDER

MATRIX:

Soil

UNITS: mg/Kg (ppm)

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Lead (organic)

0.25

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MDL = Method Detection Limit; compound below this level would not be detected. Results rounded to two significant figures.

METHOD: per California DHS

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### APPENDIX G

### GROUNDWATER MONITORING DATA

	MW-1	MW-2	MW-3
WELLHEAD ELEV.(ft)*	100.00	98.45	99.65
DATE			
08/20/87 DTW DTP	11.71	98.45	NM -
ELEV. WATER	88.29	86.96	
9/01/87 DTW DTP	11.98	11.40	11.77
ELEV. WATER	88.02	87.05	87.88
11/05/87 DTW DTP	MM	NM	11.92
ELEV. WATER			87.73
01/29/88 DTW	11.60	11.07	11.37
ELEV. WATER	88.40	87.38	88.28
03/03/88 DTW DTP	11.81	11.32	11.52
ELEV. WATER	88.19	87.13	88.13
07/27/88 DTW	12.49	11.88	12.24
DTP ELEV. WATER	87.51	86.57	87.41
03/28/90 DTW	* * * *	98.45 11.54	**
DTP ELEV, WATER	* *	86.91	

DTW = Depth To Water (FT)
DTP = Depth To Product (FT)
* = Relative datum

** = Destroyed on September 15, 1988 NM = Not Measured

MD4314A

MORK ORD#:8902041 CLIENT:

LYNN PERA

rege a vi

GROUNDWATER TECHNOLOGY, INC.

4060-D PIKE LANE

CONCORD, CA 94520

PROJECT#: 283-199-43114-12 LOCATION: MARTIN LUTHER KING DRIVE

**Western Region** 

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

(800) 544-3422 from Inside California

(800) 423-7143 from outside California

SAMPLED: 82/81/89

BY: D. KAUFMAN

RECEIVED: 82/82/89

ANALYZED: 82/87/89

BY: R. CONDIT

MATRIX:

DC/10/0201

Hater

UNITS:

up/L (ppb)

PARAMETER	ISAMPLE # 1 81   II.D.   MH-2	l I	1	   	 
Benzene	(PQL				
Toluene	(PQL				
Ethylbenzene	(PQL				
Xylenes	(PQL				
Total BTEX	(PQL				
Total Petroleum Hydrocarbons as Basoline	8				

(PQL = Less than Practical Quantitation Levels per EPA Federal Register,

November 13, 1985, page 46906.

Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

EMMA P. POPEK, Laborator Director

	Concord, CA 94520 415-685-7852	800-544-3422 (in CA) 800-423-7143 (Outside CA)		F-CUSTC	DY REC	ORD AND	CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST	EQUEST	•
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Concord, CA 94520

(800) 544-3422 from inside California

(800) 423-7143 from outside California

4080 Pike Lane

(415) 685-7852

05/15/89 KF

PAGE 1 DF 1

WORK DRD#: 0905341

CLIENT: LYNN PERA

GROUNDWATER TECHNOLOGY, INC.

4888-D PIKE LANE

CONCORD, CA 94520

PROJECT#: 203-199-4314-15

LOCATION: HEARST & OXFORD STREET

SAMPLED: 05/12/89

BY: D. KAUFMAN

RECEIVED: 05/12/89

ANALYZED: 05/13/89

BY: R. CONDIT

MATRIX:

WATER

UNITS: ug/L (ppb)

PARAMETER	ISAMPLE # I	01   MW #1	<b>0</b> 2 MW #1B			! ! 
Benzene	4	(PQL	(PQL			
Toluene		(PGL	(PQL			
Ethylbenzene		(POL	(PQL			
Xylenes		(PQL	(PQL		·	
Total BTEX		(PQL	(POL			
Total Petroleum Hydrocarbons as		(PQL	(PQL			
Gasoline						

(PQL = Less then Practical Quantitation Levels per EPA Federal Register,

November 13, 1985, page 46906.

Results rounded to two significant figures.

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Project Number: 203-199-4314
Work Order Number: D0-03-865
Location: 424 Martin Luther King Jr. Way
Oalkland, CA.
Date Sampled: 28-Mar-90

### Table 1a

### **ANALYTICAL RESULTS**

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water EPA Methods 5030, 8020 and modified 8015^a

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.

GTEL Sample Number		01			
Client Identification		MW-2			
Date Analyzed		04/05/90			<u> L.,</u>
Analyte	Detection Limit, ug/L		Concent	ration, ug/L	
Benzene	0.5	<0.5			
Toluene	0.5	<0.5			
Ethylbenzene	0.5	<0.5			
Xylene, total	0.5	< 0.5			<u> </u>
TPH as gasoline	1	<1			
Detection limit multiplier		1		<u></u>	<u> </u>



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